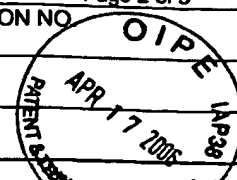


FORM PTO-1449		FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1744.0020007		APPLICATION NO. 10/086,367	
FILING DATE March 4, 2002		FIRST NAMED INVENTOR David F. SORRELLS		ART UNIT 2617		Page 1 of 3	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
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	AG						
SB	AH71	7,010,286 B2	03/2006	Sorrells et al.			
SH	AI71	7,010,559 B2	03/2006	Rawlins et al.			
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
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EXAMINER <i>[Signature]</i>					DATE CONSIDERED 4/28/06		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0020007APPLICATION NO
10/086,367FIRST NAMED INVENTOR
David F. SORRELLSFILING DATE
March 4, 2002ART UNIT
2617

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	TRANSLATION DATE
SB	AA72	5,131,014	07/1992	White			
	AB72	6,393,070 B1	05/2002	Reber			
	AC72	7,016,663 B2	03/2006	Sorrells <i>et al.</i>			
	AD72	3,694,754	09/1972	Baltzer			
	AE72	4,931,716	06/1990	Jovanovic <i>et al.</i>			
	AF72	3,617,898	11/1971	Janning, Jr.			
	AG72	3,764,921	10/1973	Huard			
	AH72	4,158,149	06/1979	Otofuji			
CB	AI72	4,380,828	04/1983	Moon			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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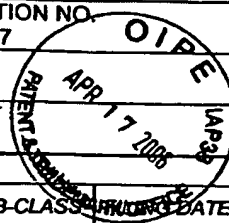
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	TRANSLATION DATE
SA	AA73	4,562,414	12/1985	Linder <i>et al.</i>			
	AB73	4,814,649	03/1989	Young			
	AC73	4,845,389	07/1989	Pyndiah <i>et al.</i>			
	AD73	5,172,019	12/1992	Naylor <i>et al.</i>			
	AE73	5,263,198	11/1993	Geddes <i>et al.</i>			
	AF73	5,551,076	08/1996	Bonn			
SA	AG73	5,633,610	05/1997	Maekawa <i>et al.</i>			
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	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367FIRST NAMED INVENTOR
David F. SORRELLSFILING DATE
March 4, 2002ART UNIT
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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SP	AE69	5,703,584	12/1997	Hill			
	AF69	5,887,001	03/1999	Russell			
	AG69	6,298,065 B1	10/2001	Dombkowski <i>et al.</i>			
	AH69	2002/0080728 A1	06/2002	Sugar <i>et al.</i>			
SP	AI69	2002/0163921 A1	11/2002	Ethridge <i>et al.</i>			

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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
SP	AJ24	WO 98/53556 A2	11/1998	PCT			N/A
	AK24	DT 1936252	01/1971	DT			Yes (Doc. AO60)
SP	AL24	JP 62-12381	01/1987	JP			No
	AM24	JP 4-154227	05/1992	JP			No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
SP	AN60	Gaudiosi, J., "Retailers will bundle Microsoft's Xbox with games and peripherals," <i>Video Store Magazine</i> , Volume 23, Issue 36, pg. 8, 2 pages (September 2-8, 2001).
	AO60	English-language Translation of German Patent Publication No. DT 1936252, translation provided by Transperfect Translations, 12 pages (January 28, 1971 - Date of publication of application).
	AP60	English-language Abstract of Japanese Patent Publication No. JP 62-12381, data supplied by the espacenet, 1 page (January 21, 1987 - Date of publication of application).
	AQ60	English-language Abstract of Japanese Patent Publication No. JP 4-154227, data supplied by the espacenet, 1 page (May 27, 1992 - Date of publication of application).
SP	AR60	English-language Abstract of Japanese Patent Publication No. JP 6-284038, data supplied by the espacenet, 1 page (October 7, 1994 - Date of publication of application).

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4/25/06

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FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0020007Page 2 of 3
APPLICATION NO.
10/086,367FIRST NAMED INVENTOR
David F. SORRELLSFILING DATE
March 4, 2002ART UNIT
2688

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
GM	AA70	6,963,734 B2	11/2005	Sorrells <i>et al.</i>			
	AB70	6,005,506	12/1999	Bazarjani <i>et al.</i>			
	AC70	6,438,366 B1	08/2002	Lindfors <i>et al.</i>			
	AD70	5,196,806	03/1993	Ichihara			
	AE70	5,410,195	04/1995	Ichihara			
	AF70	6,404,823 B1	06/2002	Grange <i>et al.</i>			
	AG70	6,618,579 B1	09/2003	Smith <i>et al.</i>			
	AH70	2001/0015673 A1	08/2001	Yamashita <i>et al.</i>			
SB	AI70	2003/0045263 A1	03/2003	Wakayama <i>et al.</i>			

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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
GM	AJ25	JP 6-284038	10/1994	JP			No
	AK25	JP 10-96778	04/1998	JP			No
	AL25	JP 11-98206	04/1999	JP			No
GM	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
GM	AN61	English-language Abstract of Japanese Patent Publication No. JP 10-96778, data supplied by the espacenet, 1 page (April 14, 1998 - Date of publication of application).
GM	AO61	English-language Abstract of Japanese Patent Publication No. JP 11-98205, data supplied by the espacenet, 1 page (April 9, 1999 - Date of publication of application).
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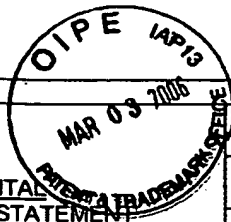
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FOURTH SUPPLEMENTAL
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David F. SORRELLSFILING DATE
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
EB	AA71	6,975,848 B2	12/2005	Rawlins <i>et al.</i>			
	AB71	6,404,758 B1	06/2002	Wang			
	AC71	6,909,739 B1	06/2005	Eerola <i>et al.</i>			
	AD71	6,910,015 B2	06/2005	Kawai			
	AE71	3,719,903	03/1973	Goodson			
	AF71	4,591,930	05/1986	Baumeister			
EB	AG71	7,006,805 B1	02/2006	Sorrells <i>et al.</i>			
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FOREIGN PATENT DOCUMENTS

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	AK						Yes No
	AL						Yes No
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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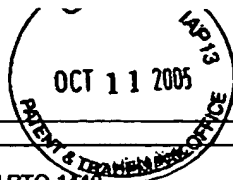
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FORM PTO-1449

ATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367**THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**FIRST NAMED INVENTOR
David F. SORRELLSFILING DATE
March 4, 2002ART UNIT
2687**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
GB	AA68	5,014,130	05/1991	Heister <i>et al.</i>			
	AB68	5,390,215	02/1995	Anita <i>et al.</i>			
	AC68	5,805,460	09/1998	Greene <i>et al.</i>			
	AD68	6,882,194 B2	04/2005	Belot <i>et al.</i>			
	AE68	6,892,062 B2	05/2005	Lee <i>et al.</i>			
	AF68	6,917,796 B2	07/2005	Setty <i>et al.</i>			
	AG68	6,920,311 B2	07/2005	Rofougaran <i>et al.</i>			
	AH68	5,062,122	10/1991	Pham <i>et al.</i>			
GB	AI68	6,182,011 B1	01/2001	Ward			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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GB	AM23	DE 692 21 098 T2	01/1998	DE			No

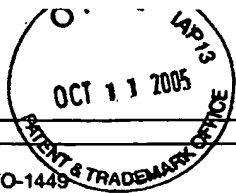
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GB	AR59	English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.

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ATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367**THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**FIRST NAMED INVENTOR
David F. SORRELLSFILING DATE
March 4, 2002ART UNIT
2687**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
85	AA69	6,639,939 B1	10/2003	Naden <i>et al.</i>			
	AB69	5,787,125	07/1998	Mittel			
	AC69	5,878,088	03/1999	Knutson <i>et al.</i>			
59	AD69	6,215,828	04/2001	Signell <i>et al.</i>			
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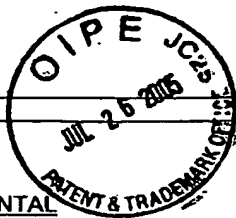
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**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367FIRST NAME INVENTOR
David F. SorrellsFILING DATE
March 4, 2002ART UNIT
2682**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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ES	AH64	5,982,329	11/1999	Pittman <i>et al.</i>			
ES	AI64	6,208,636 B1	03/2001	Tawil <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
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	AP	
ES	AQ59	Hellwarth, G.A. and Jones, G.D, "Automatic Conditioning of Speech Signals," <i>IEEE Transactions on Audio and Electroacoustics</i> , Vol. AU-16, No. 2, pp. 169-179 (June 1968).
	AR	

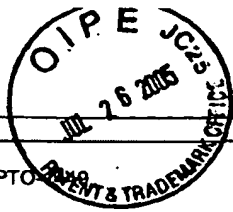
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FORM PTO-2449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367FIRST NAME INVENTOR
David F. SorrellsFILING DATE
March 4, 2002ART UNIT
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
90	AA65	3,614,630	10/1971	Rorden			
	AB65	6,836,650 B2	12/2004	Sorrells <i>et al.</i>			
	AC65	5,844,868	12/1998	Takahashi <i>et al.</i>			
	AD65	6,385,439 B1	05/2002	Hellberg			
	AE65	6,741,139 B2	05/2004	Pleasant <i>et al.</i>			
	AF65	6,823,178 B2	11/2004	Pleasant <i>et al.</i>			
	AG65	6,850,742 B2	02/2005	Fayyaz			
	AH65	6,853,690 B1	02/2005	Sorrells <i>et al.</i>			
90	AI65	4,789,837	12/1988	Ridgers			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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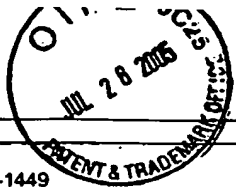
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David F. SorrellsFILING DATE
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2682**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
6/3	AA66	5,634,207	05/1997	Yamaji <i>et al.</i>			
	AB66	5,642,071	06/1997	Sevenhans <i>et al.</i>			
	AC66	6,211,718 B1	04/2001	Souetinov			
	AD66	6,212,369 B1	04/2001	Avasarala			
	AE66	6,308,058 B1	10/2001	Souetinov <i>et al.</i>			
	AF66	6,633,194 B2	10/2003	Arnborg <i>et al.</i>			
	AG66	2001/0036818 A1	11/2001	Dobrovolny			
	AH66	6,873,836 B1	03/2005	Sorrells <i>et al.</i>			
9/10	AI66	6,879,817 B1	04/2005	Sorrells <i>et al.</i>			

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
EB	AA67	6,057,714	05/2000	Andrys <i>et al.</i>			
	AB67	2003/0081781 A1	05/2003	Jensen <i>et al.</i>			
	AC67	5,994,689	11/1999	Charrier			
	AD67	6,512,544 B1	01/2003	Merrill <i>et al.</i>			
	AE67	6,628,328 B1	09/2003	Yokouchi <i>et al.</i>			
	AF67	6,801,253 B1	10/2004	Yonemoto <i>et al.</i>			
	AG67	3,737,778	06/1973	Van Gerwen <i>et al.</i>			
	AH67	4,286,283	08/1981	Clemens			
9B	AI67	4,241,451	12/1980	Maixner <i>et al.</i>			

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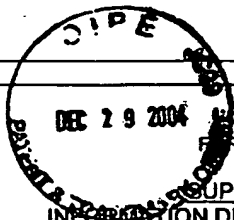
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SUPPLEMENTAL
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ATTY. DOCKET NO.

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APPLICATION NO.

10/086,367

FIRST NAMED INVENTOR

David F. Sorrells

FILING DATE

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	AD						
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	AH55	6,094,084	07/2000	Abou-Allam <i>et al.</i>			
EG	AI55	6,067,329	05/2000	Kato <i>et al.</i>			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
GB	AL23	DE 196 48 915 A1	06/1998	DE			Yes (Doc. AO59)
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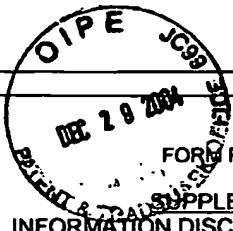
92	AN	59	Simoni, A. <i>et al.</i> , "A Single-Chip Optical Sensor with Analog Memory for Motion Detection," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 30, No. 7, pp. 800-806 (July 1995).				
	AO	59	English Translation of German Patent Publication No. DE 196 48 915 A1, 10 pages.				
93	AP	59	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 nd Edition, McGraw-Hill, Inc., pp. 41-45 (1977).				
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DATE CONSIDERED

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FORM PTO-1449

SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0020007

APPLICATION NO.

10/086,367

FIRST NAMED INVENTOR

David F. Sorrells

FILING DATE

March 4, 2002

ART UNIT

2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
EB	AA56	6,516,185	02/2003	MacNally			
	AB56	6,608,647	08/2003	King			
	AC56	6,687,493 B1	02/2004	Sorrells <i>et al.</i>			
	AD56	6,694,128 B1	02/2004	Sorrells <i>et al.</i>			
	AE56	6,031,217	02/2000	Aswell <i>et al.</i>			
	AF56	5,955,992	09/1999	Shattil			
	AG56	5,999,561	12/1999	Naden <i>et al.</i>			
	AH56	6,686,879 B2	02/2004	Shattil			
GB	AI56	6,704,549 B1	03/2004	Sorrells <i>et al.</i>			

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AK						Yes No
	AL						Yes No
	AM						Yes No

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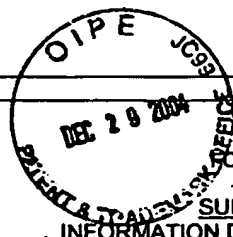
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FORM PTO-1449

SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
March 4, 2002ART UNIT
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
S/S	AA57	6,704,558 B1	03/2004	Sorrells <i>et al.</i>			
	AB57	5,490,176	02/1996	Peltier			
	AC57	5,970,053	10/1999	Schick <i>et al.</i>			
	AD57	6,078,630	06/2000	Prasanna			
	AE57	6,600,911 B1	07/2003	Morishige <i>et al.</i>			
	AF57	5,179,731	01/1993	Trankle <i>et al.</i>			
	AG57	5,589,793	12/1996	Kassapian			
	AH57	4,510,467	04/1985	Chang <i>et al.</i>			
DA	AI57	4,772,853	09/1988	Hart			

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FOREIGN PATENT DOCUMENTS

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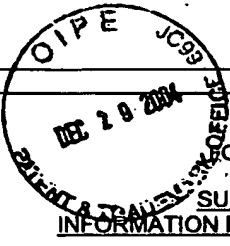
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SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
gk	AA58	4,972,436	11/1990	Halim <i>et al.</i>			
	AB58	5,012,245	04/1991	Scott <i>et al.</i>			
	AC58	5,422,909	06/1995	Love <i>et al.</i>			
	AD58	5,440,311	08/1995	Gallagher <i>et al.</i>			
	AE58	5,926,513	07/1999	Suominen <i>et al.</i>			
	AF58	5,995,030	11/1999	Cabler			
	AG58	6,047,026	04/2000	Chao <i>et al.</i>			
	AH58	6,049,573	04/2000	Song			
So	AI58	6,076,015	06/2000	Hartley <i>et al.</i>			

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FOREIGN PATENT DOCUMENTS

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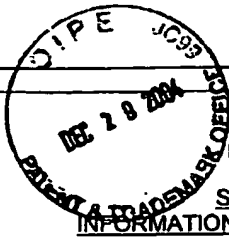
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1744.0020007APPLICATION NO.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SP	AA59	6,144,331	11/2000	Jiang			
	AB59	6,018,553	01/2000	Sanielevici <i>et al.</i>			
	AC59	6,317,589 B1	11/2001	Nash			
	AD59	5,058,107	10/1991	Stone <i>et al.</i>			
	AE59	5,757,858	05/1998	Black <i>et al.</i>			
	AF59	6,531,979 B1	03/2003	Hynes			
	AG59	6,018,262	01/2000	Noro <i>et al.</i>			
	AH59	4,761,798	08/1988	Griswold, Jr. <i>et al.</i>			
Sh	AI59	5,982,315	11/1999	Bazarjani <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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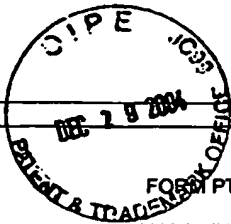
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
ESB	AA60	6,459,721 B1	10/2002	Mochizuki <i>et al.</i>			
	AB60	6,151,354	11/2000	Abbey			
	AC60	6,169,733 B1	01/2001	Lee			
	AD60	6,363,262 B1	03/2002	McNicol			
	AE60	6,697,603 B1	02/2004	Lovinggood <i>et al.</i>			
	AF60	5,282,222	01/1994	Fattouche <i>et al.</i>			
	AG60	5,949,827	09/1999	DeLuca <i>et al.</i>			
	AH60	6,014,176	01/2000	Nayebi <i>et al.</i>			
ESB	AI60	5,678,226	10/1997	Li <i>et al.</i>			

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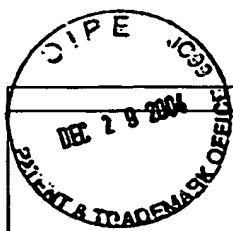
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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
EB	AA61	5,760,632	06/1998	Kawakami <i>et al.</i>			
	AB61	6,160,280	12/2000	Bonn <i>et al.</i>			
	AC61	5,481,570	01/1996	Winters			
	AD61	5,745,846	04/1998	Myer <i>et al.</i>			
	AE61	5,345,239	09/1994	Madni <i>et al.</i>			
	AF61	4,132,952	01/1979	Hongu <i>et al.</i>			
	AG61	5,260,973	11/1993	Watanabe			
	AH61	6,307,894 B2	10/2001	Eidson <i>et al.</i>			
EB	AI61	6,091,289	07/2000	Song <i>et al.</i>			

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FOREIGN PATENT DOCUMENTS

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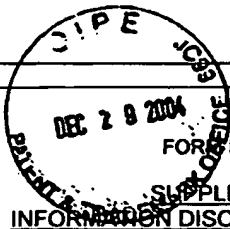
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FOR PTO-1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1744.0020007	APPLICATION NO. 10/086,367
	FIRST NAMED INVENTOR David F. Sorrells	
	FILING DATE March 4, 2002	ART UNIT 2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SB	AA62	6,437,639 B1	08/2002	Nguyen <i>et al.</i>			
	AB62	2002/0037706 A1	03/2002	Ichihara			
	AC62	4,441,080	04/1984	Saari			
	AD62	4,873,492	10/1989	Myer			
	AE62	5,697,074	12/1997	Makikallio <i>et al.</i>			
	AF62	5,784,689	07/1998	Kobayashi			
	AG62	6,335,656 B1	01/2002	Goldfarb <i>et al.</i>			
	AH62	6,690,232 B2	02/2004	Ueno <i>et al.</i>			
SB	AI62	5,636,140	06/1997	Lee <i>et al.</i>			

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FOREIGN PATENT DOCUMENTS

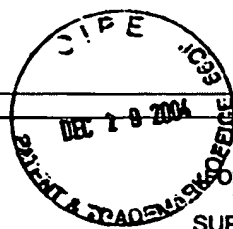
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EXAMINER 	DATE CONSIDERED 4/28/06
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FORM PTO-1449

SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
March 4, 2002ART UNIT
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SB	AA63	6,366,622 B1	04/2002	Brown <i>et al.</i>			
	AB63	6,600,795 B1	07/2003	Ohta <i>et al.</i>			
	AC63	4,250,458	02/1981	Richmond <i>et al.</i>			
	AD63	5,760,629	06/1998	Urabe <i>et al.</i>			
	AE63	6,084,465	07/2000	Dasgupta			
	AF63	6,204,789 B1	03/2001	Nagata			
	AG63	6,064,054	05/2000	Waczynski <i>et al.</i>			
	AH63	5,218,562	06/1993	Basehore <i>et al.</i>			
SB	AI63	5,239,496	08/1993	Vancraeynest			

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FOREIGN PATENT DOCUMENTS

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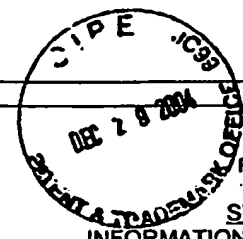
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1744.0020007Page 10 of 10
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David F. SorrellsFILING DATE
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2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
52	AA64	5,896,304	04/1999	Tiemann <i>et al.</i>			
	AB64	6,005,903	12/1999	Mendelovicz			
	AC64	5,834,979	11/1998	Yatsuka			
	AD64	6,798,351 B1	09/2004	Sorrells <i>et al.</i>			
	AE64	6,813,485 B2	11/2004	Sorrells <i>et al.</i>			
	AF64	5,410,270	04/1995	Rybicki <i>et al.</i>			
52	AG64	6,509,777 B2	01/2003	Razavi <i>et al.</i>			
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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PATENT & TRADEMARK INFORMATION DISCLOSURE STATEMENT	Sorrells et al.	
	FILING DATE March 4, 2002	GROUP 2682

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
EK	AA1	2,057,613	10/1936	Gardner			
	AB1	2,241,078	05/1941	Vreeland			
	AC1	2,270,385	01/1942	Skillman			
	AD1	2,283,575	05/1942	Roberts			
	AE1	2,358,152	09/1944	Earp			
	AF1	2,410,350	10/1946	Labin et al.			
	AG1	2,451,430	10/1948	Barone			
	AH1	2,462,069	02/1949	Chatterjea et al.			
	AI1	2,462,181	02/1949	Grosselfinger			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
EK	AJ1	DE 42 37 692 C1	03/1994	DE			No
	AK1	EP 0 035 166 A1	09/1981	EP			No
	AL1	EP 0 193 899 B1	06/1990	EP			N/A
EW	AM1	EP 0 380 351 A2	08/1990	EP			N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
EW	AN	1	Aghvami, H. et al., "Land Mobile Satellites Using the Highly Elliptic Orbits- The UK T-SAT Mobile Payload," <i>Fourth International Conference on Satellite Systems for Mobile Communications and Navigation</i> , IEE, pp. 147-153 (October 17-19, 1988).
	AO	1	Akers, N.P. et al., "RF Sampling Gates: a Brief Review," <i>IEE Proceedings</i> , IEE, Vol. 133, Part A, No. 1, pp. 45-49 (January 1986).
	AP	1	Al-Ahmad, H.A.M. et al., "Doppler Frequency Correction for a Non-Geostationary Communications Satellite. Techniques for CERS and T-SAT," <i>Electronics Division Colloquium on Low Noise Oscillators and Synthesizers</i> , IEE, pp. 4/1-4/5 (January 23, 1986).
	AQ	1	Ali, I. et al., "Doppler Characterization for LEO Satellites," <i>IEEE Transactions on Communications</i> , IEEE, Vol. 46, No. 3, pp. 309-313 (March 1998).
	AR	1	Allan, D.W., "Statistics of Atomic Frequency Standards," <i>Proceedings Of The IEEE Special Issue on Frequency Stability</i> , IEEE, pp. 221-230 (February 1966).

EXAMINER	DATE CONSIDERED 4/28/01
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PATENT & TRADEMARK INFORMATION DISCLOSURE STATEMENT	APPLICANTS Sorrrells et al.	
	FILING DATE March 4, 2002	GROUP 2682

U.S. PATENT DOCUMENTS

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SP	AA2	2,472,798	06/1949	Fredendall			
	AB2	2,497,859	02/1950	Boughtwood et al.			
	AC2	2,499,279	02/1950	Peterson			
	AD2	2,802,208	08/1957	Hobbs			
	AE2	2,985,875	05/1961	Grisdale et al.			
	AF2	3,023,309	02/1962	Foulkes			
	AG2	3,069,679	12/1962	Sweeney et al.			
	AH2	3,104,393	09/1963	Vogelman			
SP	AI2	3,114,106	12/1963	McManus			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
SP	AJ2	EP 0 380 351 A3	02/1991	EP			N/A
	AK2	EP 0 411 840 A2	02/1991	EP			N/A
	AL2	EP 0 411 840 A3	07/1991	EP			N/A
SP	AM2	EP 0 411 840 B1	10/1995	EP			N/A

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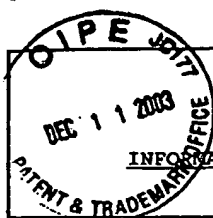
97	AN	2	Allstot, D.J. <i>et al.</i> , "MOS Switched Capacitor Ladder Filters," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 806-814 (December 1978).
	AO	2	Allstot, D.J. and Black Jr. W.C., "Technological Design Considerations for Monolithic MOS Switched-Capacitor Filtering Systems," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 967-986 (August 1983).
	AP	2	Alouini, M. <i>et al.</i> , "Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals," <i>Proceedings Of the IEEE</i> , IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).
	AQ	2	Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," <i>Telecommunications and Radio Engineering</i> , Scripta Technica, Vol. 43, No. 12, pp. 87-90 (December 1988).
97	AR	2	Antonetti, A. <i>et al.</i> , "Optoelectronic Sampling in the Picosecond Range," <i>Optics Communications</i> , North-Holland Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).

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INFORMATION DISCLOSURE STATEMENT

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1744.0020007APPLICATION NO.
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Sorrells et al.FILING DATE
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2682

U.S. PATENT DOCUMENTS

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gm	AA3	3,118,117	01/1964	King et al.			
	AB3	3,226,643	12/1965	McNair			
	AC3	3,258,694	06/1966	Shepherd			
	AD3	3,383,598	05/1968	Sanders			
	AE3	3,384,822	05/1968	Miyagi			
	AF3	3,454,718	07/1969	Perreault			
	AG3	3,523,291	08/1970	Pierret			
	AH3	3,548,342	12/1970	Maxey			
gm	AI3	3,555,428	01/1971	Perreault			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
gm	AJ3	EP 0 423 718 A2	04/1991	EP			N/A
	AK3	EP 0 423 718 A3	08/1992	EP			N/A
	AL3	EP 0 486 095 A1	05/1992	EP			N/A
gm	AM3	EP 0 486 095 B1	02/1997	EP			N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

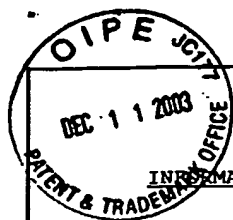
gm	AN	3	Austin, J. et al., "Doppler Correction of the Telecommunication Payload Oscillators in the UK T-SAT," 18 th European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 851-857 (September 12 - 15, 1988).
	AO	3	Auston, D.H., "Picosecond optoelectronic switching and gating in silicon," <i>Applied Physics Letters</i> , American Institute of Physics, Vol. 26, No. 3, pp. 101-103 (February 1, 1975).
	AP	3	Baher, H., "Transfer Functions for Switched-Capacitor and Wave Digital Filters," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. CAS-33, No. 11, pp. 1138-1142 (November 1986).
	AQ	3	Baines, R., "The DSP Bottleneck," <i>IEEE Communications Magazine</i> , IEEE Communications Society, pp. 46-54 (May 1995).
gm	AR	3	Banjo, O.P. and Vilar, E., "Binary Error Probabilities on Earth-Space Links Subject to Scintillation Fading," <i>Electronics Letters</i> , IEE, Vol. 21, No. 7, pp. 296-297 (March 28, 1985).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367APPLICANTS
Sorrells et al.FILING DATE
March 4, 2002GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
GA	AA4	3,617,892	11/1971	Hawley et al.			
	AB4	3,621,402	11/1971	Gardner			
	AC4	3,623,160	11/1971	Giles et al.			
	AD4	3,626,417	12/1971	Gilbert			
	AE4	3,629,696	12/1971	Bartelink			
	AF4	3,662,268	05/1972	Gans et al.			
	AG4	3,689,841	09/1972	Bello et al.			
	AH4	3,714,577	01/1973	Hayes			
GA	AI4	3,717,844	02/1973	Barret et al.			

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GA	AJ4	EP 0 512 748 A2	11/1992	EP			N/A
	AK4	EP 0 512 748 A3	07/1993	EP			N/A
	AL4	EP 0 512 748 B1	11/1998	EP			N/A
GA	AM4	EP 0 548 542 A1	06/1993	EP			N/A

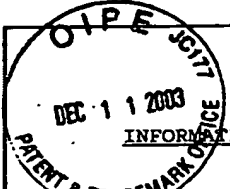
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

GA	AN	4	Banjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 277-280 (March 30 - April 2, 1987).
	AO	4	Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Space Paths and Impact on Communication Systems," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986).
	AP	4	Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , IEE, pp. 77-82 (April 16-19, 1985).
	AQ	4	Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).
GA	AR	4	Basili, P. et al., "Observation of High C ² and Turbulent Path Length on OTS Space-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).

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	FORM PTO-1449		ATTY. DOCKET NO. 1744.0020007	APPLICATION NO. 10/086,367
	APPLICANTS Sorrells et al.			
	FILING DATE March 4, 2002		GROUP 2682	

INFORMATION DISCLOSURE STATEMENT

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
9/7	AA5	3,735,048	05/1973	Tomsa et al.			
	AB5	3,806,811	04/1974	Thompson			
	AC5	3,868,601	02/1975	MacAfee			
	AD5	3,949,300	04/1976	Sadler			
	AE5	3,967,202	06/1976	Batz			
	AF5	3,980,945	09/1976	Bickford			
	AG5	3,987,280	10/1976	Bauer			
	AH5	3,991,277	11/1976	Hirata			
9/7	AI5	4,003,002	01/1977	Snijders et al.			

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9/7	AJ5	EP 0 632 288 A2	01/1995	EP			N/A
	AK5	EP 0 632 288 A3	07/1996	EP			N/A
	AL5	EP 0 696 854 A1	02/1996	EP			N/A
9/7	AM5	EP 0 782 275 A2	07/1997	EP			N/A

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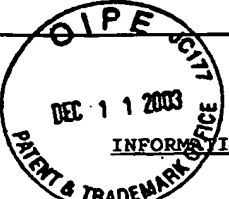
9/7	AN	5	Blakey, J.R. et al., "Measurement of Atmospheric Millimetre-Wave Phase Scintillations in an Absorption Region," <i>Electronics Letters</i> , IEE, Vol. 21, No. 11, pp. 486-487 (May 23, 1985).
	AO	5	Burgueño, A. et al., "Influence of rain gauge integration time on the rain rate statistics used in microwave communications," <i>Annales des télécommunications</i> , International Union of Radio Science, pp. 522-527 (September/October 1988).
	AP	5	Burgueño, A. et al., "Long-Term Joint Statistical Analysis of Duration and Intensity of Rainfall Rate with Application to Microwave Communications," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 198-201 (March 30 - April 2, 1987).
	AQ	5	Burgueño, A. et al., "Long Term Statistics of Precipitation Rate Return Periods in the Context of Microwave Communications," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 297-301 (April 4-7, 1989).
9/7	AR	5	Burgueño, A. et al., "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (September 1990).

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	INFORMATION DISCLOSURE STATEMENT			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Mh	AA6	4,013,966	03/1977	Campbell			
	AB6	4,019,140	04/1977	Swerdlow			
	AC6	4,035,732	07/1977	Lohrmann			
	AD6	4,047,121	09/1977	Campbell			
	AE6	4,066,841	01/1978	Young			
	AF6	4,066,919	01/1978	Huntington			
	AG6	4,081,748	03/1978	Batz			
	AH6	4,130,765	12/1978	Arakelian et al.			
in	AI6	4,130,806	12/1978	Van Gerwen et al.			

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gp	AJ6	EP 0 785 635 A1	07/1997	EP			No
	AK6	EP 0 795 978 A2	09/1997	EP			N/A
	AL6	EP 0 837 565 A1	04/1998	EP			N/A
gm	AM6	EP 0 862 274 A1	09/1998	EP			N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

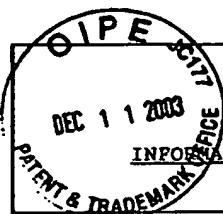
gm	AN	6	Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," <i>Electronics Letters</i> , IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998).
	AO	6	Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," <i>European Solid State Circuits Conference</i> , IEEE Communication Society, pp. 210-213 (September 22-24, 1993).
	AP	6	Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.
	AQ	6	Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.
	AR	6	Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 3 pages.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SP	AA7	4,142,155	02/1979	Adachi			
	AB7	4,170,764	10/1979	Salz et al.			
	AC7	4,204,171	05/1980	Sutphin, Jr.			
	AD7	4,210,872	07/1980	Gregorian			
	AE7	4,245,355	01/1981	Pascoe et al.			
	AF7	4,253,066	02/1981	Fisher et al.			
	AG7	4,253,069	02/1981	Nosseck			
	AH7	4,308,614	12/1981	Fisher et al.			
SM	AI7	4,320,361	03/1982	Kikkert			

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SM	AJ7	EP 0 874 499 A2	10/1998	EP			N/A
	AK7	FR 2 743 231 A1	07/1997	FR			No
	AL7	GB 2 161 344 A	01/1986	GB			N/A
SM	AM7	GB 2 215 945 A	09/1989	GB			N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SM	AN	Z	Copy of Declaration of Richard C. Looke filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.
	AO	Z	Copy of Declaration of Charley D. Moses, Jr. filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.
	AP	Z	Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 130 pages.
	AQ	Z	Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," <i>Electronics Division Colloquium on Digitally Implemented Radios</i> , IEE, pp. 3/1-3/5 (October 18, 1985).
SM	AR	Z	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, 1 page (November 13, 1990 - Date of publication of application).

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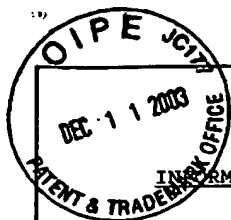
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ms	AA8	4,320,536	03/1982	Dietrich			
	AB8	4,346,477	08/1982	Gordy			
	AC8	4,355,401	10/1982	Ikoma <i>et al.</i>			
	AD8	4,356,558	10/1982	Owen <i>et al.</i>			
	AE8	4,360,867	11/1982	Gonda			
	AF8	4,363,132	12/1982	Collin			
	AG8	4,365,217	12/1982	Berger <i>et al.</i>			
	AH8	4,370,572	01/1983	Cosand <i>et al.</i>			
ms	AI8	4,389,579	06/1983	Stein			

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
gm	AJ8	JP 2-39632 A	02/1990	JP	_____	_____	No
	AK8	JP 2-131629 A	05/1990	JP	_____	_____	No
	AL8	JP 2-276351 A	11/1990	JP	_____	_____	No
gm	AM8	WO 80/01633 A1	08/1980	PCT	_____	_____	N/A

EN	AN	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-131629, 1 page (May 21, 1990 - Date of publication of application).
	AO	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-39632, 1 page (February 8, 1990 - Date of publication of application).
	AP	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, 3 pages (December 26, 1996 - Date of publication of application).
	AQ	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 35166 A1, 2 pages (February 18, 1981 - Date of publication of application).
W	AR	8	"DSO takes sampling rate to 1 Ghz," <i>Electronic Engineering</i> , Morgan Grampian Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SM	AA9	4,392,255	07/1983	Del Giudice			
	AB9	4,430,629	02/1984	Betzl et al.			
	AC9	4,446,438	05/1984	Chang et al.			
	AD9	4,456,990	06/1984	Fisher et al.			
	AE9	4,472,785	09/1984	Kasuga			
	AF9	4,479,226	10/1984	Prabhu et al.			
	AG9	4,481,490	11/1984	Huntley			
	AH9	4,481,642	11/1984	Hanson			
SM	AI9	4,485,488	11/1984	Houdart			

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SM	AJ9	WO 94/05087 A1	03/1994	PCT			N/A
	AK9	WO 96/02977 A1	02/1996	PCT			N/A
	AL9	WO 96/08078 A1	03/1996	PCT			N/A
SM	AM9	WO 96/39750 A1	12/1996	PCT			N/A

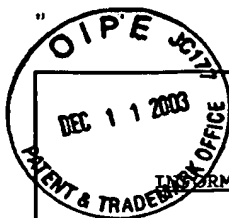
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SM	AN	9	Erdi, G. and Henneuse, P.R., "A Precision FET-Less Sample-and-Hold with High Charge-to-Droop Current Ratio," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 864-873 (December 1978).
	AO	9	Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).
	AP	9	Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," <i>CPEM 82 Digest: Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. M-10 and M-11 (1982).
	AQ	9	Faulkner, N.D. and Vilar, E., "Time Domain Analysis of Frequency Stability Using Non-Zero Dead-Time Counter Techniques," <i>CPEM 84 Digest Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. 81-82 (1984).
SM	AR	9	Filip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of Amplitude Scintillations and Rain Attenuation," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 11, pp. 1958-1965 (November 1990).

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EB	AA10	4,504,803	03/1985	Lee et al.			
	AB10	4,517,519	05/1985	Mukaiyama			
	AC10	4,517,520	05/1985	Ogawa			
	AD10	4,518,935	05/1985	van Roermund			
	AE10	4,521,892	06/1985	Vance et al.			
	AF10	4,563,773	07/1986	Dixon, Jr. et al.			
	AG10	4,577,157	03/1986	Reed			
	AH10	4,583,239	04/1986	Vance			
IL	AI10	4,591,736	05/1986	Hirao et al.			

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	AK10	WO 98/00953 A1	01/1998	PCT			N/A
	AL10	WO 98/24201 A1	06/1998	PCT			N/A
CM	AM10	EP 0 099 265 A1	01/1984	EP			N/A

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SA	AN	10	Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984).
	AO	10	Fukuchi, H. and Otsu, Y., "Available time statistics of rain attenuation on earth-space path," <i>IEE Proceedings-H: Microwaves, Antennas and Propagation</i> , IEE, Vol. 135, Pt. H, No. 6, pp. 387-390 (December 1988).
	AP	10	Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," <i>IEE Proceedings</i> , IEE, Vol. 134, Pt. H, No. 2, pp. 169-173 (April 1987).
	AQ	10	Gilchrist, B. et al., "Sampling hikes performance of frequency synthesizers," <i>Microwaves & RF</i> , Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).
SA	AR	10	Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," <i>Radio Science</i> , American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).

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9/2	AA11	4,602,220	07/1986	Kurihara			
	AB11	4,603,300	07/1986	Welles, II et al.			
	AC11	4,612,464	09/1986	Ishikawa et al.			
	AD11	4,612,518	09/1986	Gans et al.			
	AE11	4,616,191	10/1986	Galani et al.			
	AF11	4,621,217	11/1986	Saxe et al.			
	AG11	4,628,517	12/1986	Schwarz et al.			
	AH11	4,634,998	01/1987	Crawford			
11	AI11	4,648,021	03/1987	Alberkrack			

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5/2	AJ11	EP 0 560 228 A1	09/1993	EP			N/A
	AK11	FR 2 245 130	04/1975	FR			Yes (See AP50)
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5/2	AM11	EP 0 732 803 A1	09/1996	EP			Yes (See AN51)

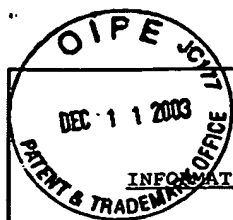
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

8/3	AN	11	Gregorian, R. et al., "Switched-Capacitor Circuit Design," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 941-966 (August 1983).
	AO	11	Groshong et al., "Undersampling Techniques Simplify Digital Radio," <i>Electronic Design</i> , Penton Publishing, pp. 67-68, 70, 73-75 and 78 (May 23, 1991).
	AP	11	Grove, W.M., "Sampling for Oscilloscopes and Other RF Systems: Dc through X-Band," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, pp. 629-635 (December 1966).
	AQ	11	Haddon, J. et al., "Measurement of Microwave Scintillations on a Satellite Down-Link at X-Band," <i>Antennas and Propagation</i> , IEE, pp. 113-117 (1981).
8/3	AR	11	Haddon, J. and Vilar, E., "Scattering Induced Microwave Scintillations from Clear Air and Rain on Earth Space Paths and the Influence of Antenna Aperture," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. AP-34, No. 5, pp. 646-657 (May 1986).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SB	AA12	4,651,034	03/1987	Sato			
	AB12	4,675,882	06/1987	Lillie <i>et al.</i>			
	AC12	4,688,253	08/1987	Gumm			
	AD12	4,716,376	12/1987	Daudelin			
	AE12	4,716,388	12/1987	Jacobs			
	AF12	4,718,113	01/1988	Rother <i>et al.</i>			
	AG12	4,726,041	02/1988	Prohaska <i>et al.</i>			
	AH12	4,733,403	03/1988	Simone			
	AI12	4,734,591	03/1988	Ichitsubo			

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SB	AJ12	DE 197 35 798 C1	07/1998	DE			Yes (See AP51)
	AK12	WO 98/40968 A2&A3	09/1998	PCT			N/A
	AL12	EP 0 529 836 A1	03/1993	EP			N/A
	AM12	EP 0 795 955 A2&A3	09/1997	EP			N/A

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SB	AN	12	Hafdallah, H. et al., "2-4 Ghz MESFET Sampler," <i>Electronics Letters</i> , IEE, Vol. 24, No. 3, pp. 151-153 (February 4, 1988).
	AO	12	Herben, M.H.A.J., "Amplitude and Phase Scintillation Measurements on 8-2 km Line-Of-Sight Path at 30 Ghz," <i>Electronics Letters</i> , IEE, Vol. 18, No. 7, pp. 287-289 (April 1, 1982).
	AP	12	Hewitt, A. et al., "An 18 Ghz Wideband LOS Multipath Experiment," <i>International Conference on Measurements for Telecommunication Transmission Systems - MTTS 85</i> , IEE, pp. 112-116 (November 27-28, 1985)
	AQ	12	Hewitt, A. et al., "An Autoregressive Approach to the Identification of Multipath Ray Parameters from Field Measurements," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 37, No. 11, pp. 1136-1143 (November 1989).
SB	AR	12	Hewitt, A. and Vilar, E., "Selective fading on LOS Microwave Links: Classical and Spread-Spectrum Measurement Techniques," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 36, No. 7, pp. 789-796 (July 1988).

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SB	AA13	4,737,969	04/1988	Steel et al.			
	AB13	4,743,858	05/1988	Everard			
	AC13	4,745,463	05/1988	Lu			
	AD13	4,751,468	06/1988	Agoston			
	AE13	4,757,538	07/1988	Zink			
	AF13	4,768,187	08/1988	Marshall			
	AG13	4,769,612	09/1988	Tamakoshi et al.			
	AH13	4,785,463	11/1988	Janc et al.			
SB	AI13	4,791,584	12/1988	Greivenkamp, Jr.			

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SB	AJ13	EP 0 817 369 A2&A3	01/1998	EP			N/A
	AK13	WO 91/18445 A1	11/1991	PCT			N/A
	AL13	WO 99/23755 A1	05/1999	PCT			N/A
SB	AM13	JP 56-114451 A	09/1981	JP			No

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SB	AN	13	Hospitalier, E., "Instruments for Recording and Observing Rapidly Varying Phenomena," <i>Science Abstracts</i> , IEE, Vol. VII, pp. 22-23 (1904).
	AO	13	Howard, I.M. and Swansson, N.S., "Demodulating High Frequency Resonance Signals for Bearing Fault Detection," <i>The Institution of Engineers Australia Vibration and Noise Conference</i> , Institution of Engineers, Australia, pp. 115-121 (September 18-20, 1990).
	AP	13	Hu, X., <i>A Switched-Current Sample-and-Hold Amplifier for FM Demodulation</i> , Thesis for Master of Applied Science, Dept. of Electrical and Computer Engineering, University of Toronto, UMI Dissertation Services, pp. 1-64 (1995).
	AQ	13	Hung, H-L. A. et al., "Characterization of Microwave Integrated Circuits Using An Optical Phase-Locking and Sampling System," <i>IEEE MTT-S Digest</i> , IEEE, pp. 507-510 (1991).
SB	AR	13	Hurst, P.J., "Shifting the Frequency Response of Switched-Capacitor Filters by Nonuniform Sampling," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. 38, No. 1, pp. 12-19 (January 1991).

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SS	AA14	4,801,823	01/1989	Yokoyama			
	AB14	4,806,790	02/1989	Sone			
	AC14	4,810,904	03/1989	Crawford			
	AD14	4,810,976	03/1989	Cowley <i>et al.</i>			
	AE14	4,811,362	03/1989	Yester, Jr. <i>et al.</i>			
	AF14	4,819,252	04/1989	Christopher			
	AG14	4,833,445	05/1989	Buchele			
	AH14	4,862,121	08/1989	Hochschild <i>et al.</i>			
W	AI14	4,868,654	09/1989	Juri <i>et al.</i>			

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S	AJ14	JP 8-32556 A	02/1996	JP			No
	AK14	JP 8-139524 A	05/1996	JP			No
	AL14	JP 59-144249 A	08/1984	JP			No
	AM14	JP 63-54002 A	03/1988	JP			No

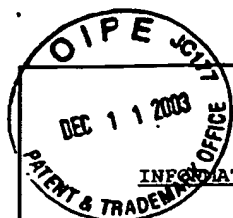
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S	AN	14	Itakura, T., "Effects of the sampling pulse width on the frequency characteristics of a sample-and-hold circuit," <i>IEE Proceedings Circuits, Devices and Systems</i> , IEE, Vol. 141, No. 4, pp. 328-336 (August 1994).
	AO	14	Janssen, J.M.L., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: I. Fundamentals," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 2, pp. 52-59 (August 1950).
	AP	14	Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: II. Electrical Build-Up," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 3, pp. 73-82 (September 1950).
	AQ	14	Jondral, V.F. et al., "Doppler Profiles for Communication Satellites," <i>Frequenz</i> , Herausberger, pp. 111-116 (May-June 1996).
	AR	14	Kaleh, G.K., "A Frequency Diversity Spread Spectrum System for Communication in the Presence of In-band Interference," <i>1995 IEEE Globecom</i> , IEEE Communications Society, pp. 66-70 (1995).

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Sg	AA15	4,870,659	09/1989	Oishi et al.			
	AB15	4,871,987	10/1989	Kawase			
	AC15	4,885,587	12/1989	Wiegand et al.			
	AD15	4,885,756	12/1989	Fontanes et al.			
	AE15	4,888,557	12/1989	Puckette, IV et al.			
	AF15	4,890,302	12/1989	Muihwijk			
	AG15	4,893,316	01/1990	Janc et al.			
	AH15	4,893,341	01/1990	Gehring			
Sg	AI15	4,894,766	01/1990	De Agro			

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Sg	AJ15	JP 6-237276 A	08/1994	JP			No
	AK15	JP 8-23359 A	01/1996	JP			No
	AL15	JP 47-2314 A	02/1972	JP			Yes (Doc. AP53)
Sg	AM15	JP 58-7903 A	01/1983	JP			Partial (Doc. AQ53)

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Sg	AN	15	Karasawa, Y. et al., "A New Prediction Method for Tropospheric Scintillation on Earth-Space Paths," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE Antennas and Propagation Society, Vol. 36, No. 11, pp. 1608-1614 (November 1988).
	AO	15	Kirsten, J. and Fleming, J., "Undersampling reduces data-acquisition costs for select applications," <i>EDN</i> , Cahners Publishing, Vol. 35, No. 13, pp. 217-222, 224, 226-228 (June 21, 1990).
	AP	15	Lam, W.K. et al., "Measurement of the Phase Noise Characteristics of an Unlocked Communications Channel Identifier," <i>Proceedings Of the 1993 IEEE International Frequency Control Symposium</i> , IEEE, pp. 283-288 (June 2-4, 1993).
	AQ	15	Lam, W.K. et al., "Wideband sounding of 11.6 Ghz transhorizon channel," <i>Electronics Letters</i> , IEE, Vol. 30, No. 9, pp. 738-739 (April 28, 1994).
Sg	AR	15	Larkin, K.G., "Efficient demodulator for bandpass sampled AM signals," <i>Electronics Letters</i> , IEE, Vol. 32, No. 2, pp. 101-102 (January 18, 1996).

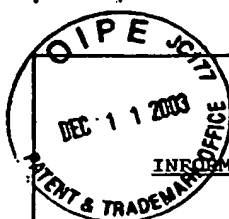
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SB	AA16	4,896,152	01/1990	Tiemann			
	AB16	4,902,979	02/1990	Puckette, IV			
	AC16	4,908,579	03/1990	Tawfik et al.			
	AD16	4,910,752	03/1990	Yester, Jr. et al.			
	AE16	4,914,405	04/1990	Wells			
	AF16	4,920,510	04/1990	Senderowicz et al.			
	AG16	4,922,452	05/1990	Larsen et al.			
	AH16	4,931,921	06/1990	Anderson			
SB	AI16	4,944,025	07/1990	Gehring et al.			

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SB	AJ16	JP 58-133004 A	08/1983	JP			No
	AK16	JP 60-58705 A	04/1985	JP			No
	AL16	JP 4-123614 A	04/1992	JP			No
SB	AM16	JP 4-127601 A	04/1992	JP			No

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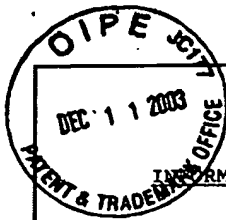
SB	AN	16	Lau, W.H. et al., "Analysis of the Time Variant Structure of Microwave Line-of-sight Multipath Phenomena," <i>IEEE Global Telecommunications Conference & Exhibition</i> , IEEE, pp. 1707-1711 (November 28 - December 1, 1988).
	AO	16	Lau, W.H. et al., "Improved Prony Algorithm to Identify Multipath Components," <i>Electronics Letters</i> , IEE, Vol. 23, No. 20, pp. 1059-1060 (September 24, 1987).
	AP	16	Lesage, P. and Audoin, C., "Effect of Dead-Time on the Estimation of the Two-Sample Variance," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE Instrumentation and Measurement Society, Vol. IM-28, No. 1, pp. 6-10 (March 1979).
	AQ	16	Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-Speed Modulators," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).
SB	AR	16	Linnenbrink, T.E. et al., "A One Gigasample Per Second Transient Recorder," <i>IEEE Transactions on Nuclear Science</i> , IEEE Nuclear and Plasma Sciences Society, Vol. NS-26, No. 4, pp. 4443-4449 (August 1979).

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SB	AA17	4,955,079	09/1990	Connemey et al.			
	AB17	4,965,467	10/1990	Biltenijst			
	AC17	4,967,160	10/1990	Quienvy et al.			
	AD17	4,970,703	11/1990	Hariharan et al.			
	AE17	4,982,353	01/1991	Jacob et al.			
	AF17	4,984,077	01/1991	Uchida			
	AG17	4,995,055	02/1991	Weinberger et al.			
	AH17	5,003,621	03/1991	Gailus			
SA	AI17	5,005,169	04/1991	Bronder et al.			

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SB	AJ17	JP 5-175730 A	07/1993	JP			No
	AK17	JP 5-175734 A	07/1993	JP			No
	AL17	JP 7-154344 A	06/1995	JP			No
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SB	AN	17	Liou, M.L., "A Tutorial on Computer-Aided Analysis of Switched-Capacitor Circuits," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 987-1005 (August 1983).
	AO	17	Lo, P. et al., "Coherent Automatic Gain Control," <i>IEE Colloquium on Phase Locked Techniques</i> , IEE, pp. 2/1-2/6 (March 26, 1980).
	AP	17	Lo, P. et al., "Computation of Rain Induced Scintillations on Satellite Down-Links at Microwave Frequencies," <i>Third International Conference on Antennas and Propagation (ICAP 83)</i> , pp. 127-131 (April 12-15, 1983).
	AQ	17	Lo, P.S.L.O. et al., "Observations of Amplitude Scintillations on a Low-Elevation Earth-Space Path," <i>Electronics Letters</i> , IEE, Vol. 20, No. 7, pp. 307-308 (March 29, 1984).
SB	AR	17	Madani, K. and Aithison, C.S., "A 20 Ghz Microwave Sampler," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and Techniques Society, Vol. 40, No. 10, pp. 1960-1963 (October 1992).

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SB	AA18	5,006,810	04/1991	Popescu			
	AB18	5,010,585	04/1991	Garcia			
	AC18	5,014,304	05/1991	Nicollini et al.			
	AD18	5,015,963	05/1991	Sutton			
	AE18	5,017,924	05/1991	Guiberteau et al.			
	AF18	5,020,149	05/1991	Hemmie			
	AG18	5,020,154	05/1991	Zierhut			
	AH18	5,052,050	09/1991	Collier et al.			
SB	AI18	5,065,409	11/1991	Hughes et al.			

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	AL18	JP 63-153691 A	06/1988	JP			No
SB	AM18	EP 0 276 130 A2&A3	07/1988	EP			N/A

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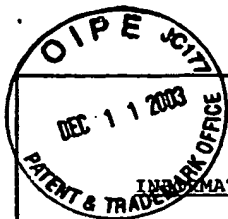
SB	AN	18	Marsland, R.A. et al., "130 Ghz GaAs monolithic integrated circuit sampling head," <i>Appl. Phys. Lett.</i> , American Institute of Physics, Vol. 55, No. 6, pp. 592-594 (August 7, 1989).
	AO	18	Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981).
	AP	18	Marzano, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998).
	AQ	18	Matricciani, E., "Prediction of fade durations due to rain in satellite communication systems," <i>Radio Science</i> , American Geophysical Union, Vol. 32, No. 3, pp. 935-941 (May-June 1997).
SB	AR	18	McQueen, J.G., "The Monitoring of High-Speed Waveforms," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. XXIV, No. 296, pp. 436-441 (October 1952).

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53	AA19	5,083,050	01/1992	Vasile			
	AB19	5,091,921	02/1992	Minami			
	AC19	5,095,533	03/1992	Loper et al.			
	AD19	5,095,536	03/1992	Loper			
	AE19	5,111,152	05/1992	Makino			
	AF19	5,113,094	05/1992	Grace et al.			
	AG19	5,113,129	05/1992	Hughes			
	AH19	5,122,765	06/1992	Pataut			
53	AI19	5,124,592	06/1992	Hagino			

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	AK19	WO 97/08839 A2&A3	03/1997	PCT			N/A
	AL19	EP 0 254 844 A2	02/1988	EP			N/A
53	AM19	EP 0 632 577 A1	01/1995	EP			N/A

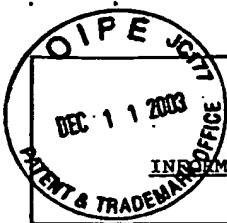
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53	AN	19	Merkelo, J. and Hall, R.D., "Broad-Band Thin-Film Signal Sampler," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-7, No. 1, pp. 50-54 (February 1972).
	AO	19	Merlo, U. et al., "Amplitude Scintillation Cycles in a Sirio Satellite-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 21, No. 23, pp. 1094-1096 (November 7, 1985).
	AP	19	Morris, D., "Radio-holographic reflector measurement of the 30-m millimeter radio telescope at 22 Ghz with a cosmic signal source," <i>Astronomy and Astrophysics</i> , Springer-Verlag, Vol. 203, No. 2, pp. 399-406 (September (II) 1988).
	AQ	19	Moulsley, T.J. et al., "The efficient acquisition and processing of propagation statistics," <i>Journal of the Institution of Electronic and Radio Engineers</i> , IERE, Vol. 55, No. 3, pp. 97-103 (March 1985).
53	AR	19	Ndizi, D. et al., "Wide-Band Statistical Characterization of an Over-the-Sea Experimental Transhorizon Link," <i>IEE Colloquium on Radio Communications at Microwave and Millimetre Wave Frequencies</i> , IEE, pp. 1/1-1/6 (December 16, 1996).

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5/3	AA20	5,136,267	08/1992	Cabot			
	AB20	5,140,705	08/1992	Kosuga			
	AC20	5,150,124	09/1992	Moore et al.			
	AD20	5,151,661	09/1992	Caldwell et al.			
	AE20	5,159,710	10/1992	Cusdin			
	AF20	5,170,414	12/1992	Silvian			
	AG20	5,172,070	12/1992	Hiraiwa et al.			
	AH20	5,191,459	03/1993	Thompson et al.			
5/3	AI20	5,204,642	04/1993	Ashgar et al.			

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	AK20	DE 196 27 640 A1	01/1997	DE			No
	AL20	EP 0 087 336 A1	08/1983	EP			No
5/3	AM20	EP 0 087 336 B1	07/1986	EP			No

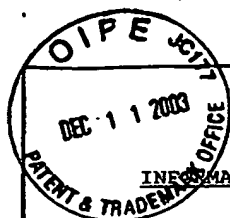
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5/3	AN	20	Ndizi, D. et al., "Wideband Statistics of Signal Levels and Doppler Spread on an Over-The-Sea Transhorizon Link," <i>IEE Colloquium on Propagation Characteristics and Related System Techniques for Beyond Line-of-Sight Radio</i> , IEE, pp. 9/1-9/6 (November 24, 1997).
	AO	20	"New zero IF chipset from Philips," <i>Electronic Engineering</i> , United News & Media, Vol. 67, No. 825, p. 10 (September 1995).
	AP	20	Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," <i>Electronic Design</i> , Hayden Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979).
	AQ	20	Oppenheim, A.V. et al., <i>Signals and Systems</i> , Prentice-Hall, pp. 527-531 and 561-562 (1983).
5/3	AR	20	Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links," <i>Electronics Letters</i> , IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985).

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367APPLICANTS
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
SB	AA21	5,212,827	05/1993	Meszko et al.			
	AB21	5,214,787	05/1993	Karkota, Jr.			
	AC21	5,220,583	06/1993	Solomon			
	AD21	5,220,680	06/1993	Lee			
	AE21	5,222,144	06/1993	Whitehart			
	AF21	5,230,097	07/1993	Currie et al.			
	AG21	5,239,686	08/1993	Downey			
	AH21	5,241,561	08/1993	Barnard			
SB	AI21	5,249,203	09/1993	Loper			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
SB	AJ21	EP 0 789 449 A2 & A3	08/1997	EP			N/A
	AK21	FR 2 669 787 A1	05/1992	FR			No
	AL21	GB 2 324 919 A	11/1998	GB			N/A
SB	AM21	JP 61-30821 A	02/1986	JP			No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

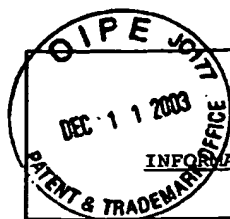
SB	AN	21	Pärssinen et al., "A 2-GHz Subharmonic Sampler for Signal Downconversion," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 45, No. 12, 7 pages (December 1997).
	AO	21	Peeters, G. et al., "Evaluation of Statistical Models for Clear-Air Scintillation Prediction Using Olympus Satellite Measurements," <i>International Journal of Satellite Communications</i> , John Wiley and Sons, Vol. 15, No. 2, pp. 73-88 (March-April 1997).
	AP	21	Perrey, A.G. and Schoenwetter, H.K., <i>NBS Technical Note 1121: A Schottky Diode Bridge Sampling Gate</i> , U.S. Dept. of Commerce, pp. 1-14 (May 1980).
	AQ	21	Poulton, K. et al., "A 1-GHz 6-bit ADC System," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-22, No. 6, pp. 962-969 (December 1987).
SB	AR	21	Press Release, "Parkervision, Inc. Announces Fiscal 1993 Results," Lippert/Heilshorn and Associates, 2 Pages (April 6, 1994).

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SB	AA22	5,251,218	10/1993	Stone et al.			
	AB22	5,251,232	10/1993	Nonami			
	AC22	5,260,970	11/1993	Henry et al.			
	AD22	5,263,194	11/1993	Ragan			
	AE22	5,263,196	11/1993	Jasper			
	AF22	5,267,023	11/1993	Kawasaki			
	AG22	5,278,826	01/1994	Murphy et al.			
	AH22	5,282,023	01/1994	Scarpa			
SB	AI22	5,287,516	02/1994	Schaub			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
SB	AJ22	JP 5-327356 A	12/1993	JP			No
	AK22	EP 0 643 477 A2&A3	03/1995	EP			N/A
	AL22	EP 0 877 476 A1	11/1998	EP			N/A
SB	AM22	EP 0 977 351 A1	02/2000	EP			N/A

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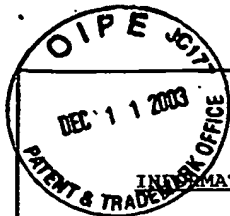
SB	AN	22	Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorn and Associates, 1 Page (April 7, 1994).
	AO	22	Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994).
	AP	22	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994).
	AQ	22	Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994).
SB	AR	22	Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994).

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EP	AA23	5,293,398	03/1994	Hamao et al.			
	AB23	5,303,417	04/1994	Laws			
	AC23	5,307,517	04/1994	Rich			
	AD23	5,315,583	05/1994	Murphy et al.			
	AE23	5,321,852	06/1994	Seong			
	AF23	5,325,204	06/1994	Scarpa			
	AG23	5,337,014	08/1994	Najle et al.			
	AH23	5,339,054	08/1994	Taguchi			
EP	AI23	5,339,459	08/1994	Schiltz et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
EP	AJ23	WO 00/31659 A1	06/2000	PCT			N/A
EP	AK23	JP 9-36664 A	02/1997	JP			No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EP	AN	23	Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn and Associates, 2 Pages (June 17, 1994).
	AO	23	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994).
	AP	23	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994).
	AQ	23	Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its Cameraman® System II," Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994).
EP	AR	23	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and Associates, 2 Pages (March 1, 1995).

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SB	AA24	5,355,114	10/1994	Sutterlin et al.			
	AB24	5,361,408	11/1994	Watanabe et al.			
	AC24	5,369,800	11/1994	Takagi et al.			
	AD24	5,375,146	12/1994	Chalmers			
	AE24	5,379,040	01/1995	Mizomoto et al.			
	AF24	5,379,141	01/1995	Thompson et al.			
	AG24	5,388,063	02/1995	Takatori et al.			
	AH24	5,390,364	02/1995	Webster et al.			
SB	AI24	5,400,084	03/1995	Scarpa			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SB	AN	24	Press Release, "Parkervision, Inc. Announces Joint Product Developments With VTEL," Lippert/Heilshorn and Associates, 2 Pages (March 21, 1995).
	AO	24	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 3 Pages (April 28, 1995).
	AP	24	Press Release, "Parkervision Wins Top 100 Product Districts' Choice Award," Parkervision Marketing and Manufacturing Headquarters, 1 Page (June 29, 1995).
	AQ	24	Press Release, "Parkervision National Sales Manager Next President of USDLA," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 6, 1995).
SB	AR	24	Press Release, "Parkervision Granted New Patent," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 21, 1995).

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APPLICATION NO.
10/086.367

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50	AA25	5,404,127	04/1995	Lee <i>et al.</i>	_____	_____	
	AB25	5,410,541	04/1995	Hotto	_____	_____	
	AC25	5,410,743	04/1995	Seely <i>et al.</i>	_____	_____	
	AD25	5,412,352	05/1995	Graham	_____	_____	
	AE25	5,416,803	05/1995	Janer	_____	_____	
	AF25	5,422,913	06/1995	Wilkinson	_____	_____	
	AG25	5,423,082	06/1995	Cygan <i>et al.</i>	_____	_____	
	AH25	5,428,638	06/1995	Cioffi <i>et al.</i>	_____	_____	
51	AI25	5,428,640	06/1995	Townley	_____	_____	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

5/3	AN	<u>25</u>	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 31, 1995).
	AO	<u>25</u>	Press Release, "Parkervision, Inc. Expands Its Cameraman System II Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 22, 1995).
	AP	<u>25</u>	Press Release, "Parkervision Announces New Camera Control Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 25, 1995).
	AQ	<u>25</u>	Press Release, "Parkervision, Inc. Announces Completion of VTEL/Parkervision Joint Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).
5/3	AR	<u>25</u>	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).

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Sb	AA26	5,434,546	07/1995	Palmer			
	AB26	5,438,692	08/1995	Mohindra			
	AC26	5,444,415	08/1995	Dent et al.			
	AD26	5,444,416	08/1995	Ishikawa et al.			
	AE26	5,444,865	08/1995	Heck et al.			
	AF26	5,446,421	08/1995	Kechkaylo			
	AG26	5,446,422	08/1995	Mattila et al.			
	AH26	5,448,602	09/1995	Ohmori et al.			
Sb	AI26	5,451,899	09/1995	Lawton			

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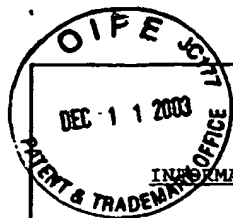
Sb	AN	26	Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995).				
	AO	26	Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).				
	AP	26	Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).				
	AQ	26	Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).				
Sb	AR	26	Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).				

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SB	AA27	5,454,007	09/1995	Dutta			
	AB27	5,454,009	09/1995	Fruit et al.			
	AC27	5,463,356	10/1995	Palmer			
	AD27	5,463,357	10/1995	Hobden			
	AE27	5,465,071	11/1995	Kobayashi et al.			
	AF27	5,465,410	11/1995	Hiben et al.			
	AG27	5,465,415	11/1995	Bien			
	AH27	5,471,162	11/1995	McEwan			
SB	AI27	5,479,120	12/1995	McEwan			

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	AM						Yes No

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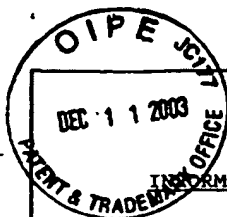
SB	AN	27	Press Release, "Parkervision, Inc. Announces First Significant Sale of Its Cameraman® Three-Chip System," Parkervision Marketing and Manufacturing Headquarters, 2 pages (April 12, 1996).
	AO	27	Press Release, "Parkervision, Inc. Introduces New Product Line For Studio Production Market," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1996).
	AP	27	Press Release, "Parkervision, Inc. Announces Private Placement of 800,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 1 Page (April 15, 1996).
	AQ	27	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 30, 1996).
SB	AR	27	Press Release, "Parkervision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (June 5, 1996).

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SB	AA28	5,479,447	12/1995	Chow et al.			
	AB28	5,483,193	01/1996	Kennedy et al.			
	AC28	5,483,549	01/1996	Weinberg et al.			
	AD28	5,483,691	01/1996	Heck et al.			
	AE28	5,490,173	02/1996	Whitehart et al.			
	AF28	5,493,581	02/1996	Young et al.			
	AG28	5,493,721	02/1996	Reis			
	AH28	5,495,200	02/1996	Kwan et al.			
SB	AI28	5,495,202	02/1996	Hsu			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SB	AN	28	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (August 1, 1996).
	AO	28	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 29, 1996).
	AP	28	Press Release, "PictureTel and ParkerVision Sign Reseller Agreement," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1996).
	AQ	28	Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to Videoconferencing," CLI/Parkervision, 2 Pages (January 20, 1997).
SB	AR	28	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (February 27, 1997).

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9/3	AA29	5,495,500	02/1996	Jovanovich et al.			
	AB29	5,499,267	03/1996	Ohe et al.			
	AC29	5,500,758	03/1996	Thompson et al.			
	AD29	5,517,688	05/1996	Fajen et al.			
	AE29	5,519,890	05/1996	Pinckley			
	AF29	5,523,719	06/1996	Longo et al.			
	AG29	5,523,726	06/1996	Kroeger et al.			
	AH29	5,523,760	06/1996	McEwan			
9/3	AI29	5,539,770	07/1996	Ishigaki			

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	AL						Yes No
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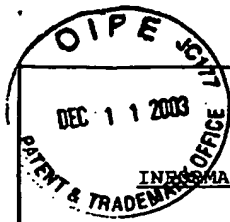
9/3	AN	29	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 29, 1997).
	AO	29	Press Release, "NEC and Parkervision Make Distance Learning Closer," NEC America, 2 Pages (June 18, 1997).
	AP	29	Press Release, "Parkervision Supplies JPL with Robotic Cameras, Cameraman Shot Director for Mars Mission," Parkervision Marketing and Manufacturing Headquarters, 2 pages (July 8, 1997).
	AQ	29	Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 23, 1997).
5/3	AR	29	Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).

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03	AA30	5,555,453	09/1996	Kajimoto et al.			
	AB30	5,557,641	09/1996	Weinberg			
	AC30	5,557,642	09/1996	Williams			
	AD30	5,579,341	11/1996	Smith et al.			
	AE30	5,579,347	11/1996	Lindquist et al.			
	AF30	5,584,068	12/1996	Mohindra			
	AG30	5,592,131	01/1997	Labreche et al.			
	AH30	5,602,847	02/1997	Pagano et al.			
57	AI30	5,602,868	02/1997	Wilson			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

03	AN	30	Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 8, 1997).				
	AO	30	Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 24, 1997).				
	AP	30	Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1997).				
	AQ	30	Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997).				
57	AR	30	Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998).				

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367APPLICANTS
Sorrells et al.FILING DATE
March 4, 2002GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
GB	AA31	5,604,732	02/1997	Kim et al.			
	AB31	5,608,531	03/1997	Honda et al.			
	AC31	5,610,946	03/1997	Tanaka et al.			
	AD31	RE 35,494	04/1997	Nicollini			
	AE31	5,617,451	04/1997	Mimura et al.			
	AF31	5,619,538	04/1997	Sempel et al.			
	AG31	5,621,455	04/1997	Rogers et al.			
	AH31	5,630,227	05/1997	Bella et al.			
GB	AI31	5,640,415	06/1997	Pandula			

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

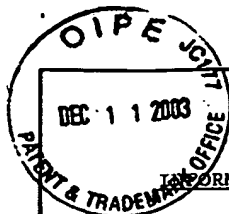
GB	AN	31	Press Release, "Parkervision Announces Existing Agreement with IBM Terminates-- Company Continues with Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998).
	AO	31	Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 3, 1998).
	AP	31	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998).
	AQ	31	Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1998).
GB	AR	31	Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (May 4, 1998).

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SB	AA32	5,640,424	06/1997	Banavong et al.			
	AB32	5,640,428	06/1997	Abe et al.			
	AC32	5,640,698	06/1997	Shen et al.			
	AD32	5,648,985	07/1997	Bjerede et al.			
	AE32	5,650,785	07/1997	Rodal			
	AF32	5,661,424	08/1997	Tang			
	AG32	5,663,878	09/1997	Walker			
	AH32	5,663,986	09/1997	Striffler			
92	AI32	5,668,836	09/1997	Smith et al.			

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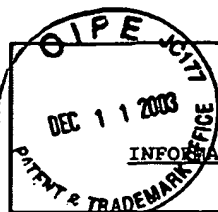
SB	AN	32	Press Release, "Parkervision 'DIRECT2DATA' Introduced in Response to Market Demand," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 9, 1998).
	AO	32	Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 29, 1998).
	AP	32	Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998).
	AQ	32	Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998).
93	AR	32	Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998).

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<i>SA</i>	AA33	5,680,078	10/1997	Arie			
	AB33	5,680,418	10/1997	Croft et al.			
	AC33	5,689,413	11/1997	Jaramillo et al.			
	AD33	5,699,006	12/1997	Zele et al.			
	AE33	5,705,955	01/1998	Freeburg et al.			
	AF33	5,710,998	01/1998	Opas			
	AG33	5,714,910	02/1998	Skoczen et al.			
	AH33	5,715,281	02/1998	Bly et al.			
<i>SA</i>	AI33	5,721,514	02/1998	Crockett et al.			

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	AM						Yes No


OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>SA</i>	AN	<u>33</u>	Press Release, "Parkervision Adds Two New Directors," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 5, 1999).
	AO	<u>33</u>	Press Release, "Parkervision Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1999).
	AP	<u>33</u>	Press Release, "Joint Marketing Agreement Offers New Automated Production Solution," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 13, 1999).
	AQ	<u>33</u>	"Project COST 205: Scintillations in Earth-satellite links," <i>Alta Frequenza: Scientific Review in Electronics</i> , AEI, Vol. LIV, No. 3, pp. 209-211 (May-June, 1985).
<i>SA</i>	AR	<u>33</u>	Razavi, B., <i>RF Microelectronics</i> , Prentice-Hall, pp. 147-149 (1998).

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 <p>FORM PTO-1449</p> <p><u>INFORMATION DISCLOSURE STATEMENT</u></p>	<p>Page 34 of 38</p> <p>ATTY. DOCKET NO. 1744.0020007</p>	<p>APPLICATION NO. 10/086,367</p>
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	<p>FILING DATE March 4, 2002</p>	<p>GROUP 2682</p>

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
5b	AA34	5,724,002	03/1998	Hulick			
	AB34	5,724,653	03/1998	Baker <i>et al.</i>			
	AC34	5,729,577	03/1998	Chen			
	AD34	5,729,829	03/1998	Talwar <i>et al.</i>			
	AE34	5,732,333	03/1998	Cox <i>et al.</i>			
	AF34	5,736,895	04/1998	Yu <i>et al.</i>			
	AG34	5,737,035	04/1998	Rotzoll			
	AH34	5,742,189	04/1998	Yoshida <i>et al.</i>			
5c	AI34	5,748,683	05/1998	Smith <i>et al.</i>			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

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53	AN	34	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 1)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 373, pp. 130-137 (March 1959).
	AO	34	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959).
	AP	34	Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche Transistors," <i>Electronics Letters</i> , IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975).
	AQ	34	Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," <i>IEEE MTT-S International Microwave Symposium Digest</i> , IEEE, pp. 267-269 (June 27-29, 1978).
53	AR	34	Rizzoli, V. et al., "Computer-Aided Noise Analysis of MESFET and HEMT Mixers," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989).

EXAMINER	<i>WJL</i>	DATE CONSIDERED	4/28/06
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
SB	AA35	RE 35,829	06/1998	Sanderford, Jr.			
	AB35	5,760,645	06/1998	Comte et al.			
	AC35	5,764,087	06/1998	Clark			
	AD35	5,767,726	06/1998	Wang			
	AE35	5,768,118	06/1998	Faulk et al.			
	AF35	5,771,442	06/1998	Wang et al.			
	AG35	5,777,692	07/1998	Ghosh			
	AH35	5,777,771	07/1998	Smith			
SB	AI35	5,786,844	07/1998	Rogers et al.			

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	AJ						Yes No
	AK						Yes No
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	AM						Yes No

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SB	AN	35	Rowe, H.E., <i>Signals and Noise in Communication Systems</i> , D. Van Nostrand Company, Inc., Princeton, New Jersey, including, for example, Chapter V, Pulse Modulation Systems (1965).
	AO	35	Rücker, F. and Dintelmann, F., "Effect of Antenna Size on OTS Signal Scintillations and Their Seasonal Dependence," <i>Electronics Letters</i> , IEE, Vol. 19, No. 24, pp. 1032-1034 (November 24, 1983).
	AP	35	Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," <i>Military Microwaves '78 Conference Proceedings</i> , Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).
	AQ	35	Sabel, L.P., "A DSP Implementation of a Robust Flexible Receiver/Demultiplexer for Broadcast Data Satellite Communications," <i>The Institution of Engineers Australia Communications Conference</i> , Institution of Engineers, Australia, pp. 218-223 (October 16-18, 1990).
SB	AR	35	Salous, S., "IF digital generation of FMCW waveforms for wideband channel characterization," <i>IEE Proceedings-I</i> , IEE, Vol. 139, No. 3, pp. 281-288 (June 1992).

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U.S. PATENT DOCUMENTS

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5/3	AA36	5,793,801	08/1998	Fertner			
	AB36	5,793,818	08/1998	Claydon et al.			
	AC36	5,802,463	09/1998	Zuckerman			
	AD36	5,809,060	09/1998	Cafarella et al.			
	AE36	5,818,582	10/1998	Fernandez et al.			
	AF36	5,825,254	10/1998	Lee			
	AG36	5,834,985	11/1998	Sundegård			
	AH36	5,864,754	01/1999	Hotto			
5/3	AI36	5,881,375	03/1999	Bonds			

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	AK						Yes No
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	AM						Yes No

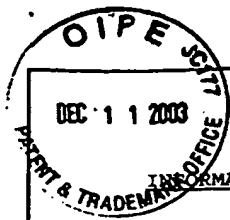
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

5/3	AN	36	"Sampling Loops Lock Sources to 23 Ghz," <i>Microwaves & RF</i> , Penton Publishing, p. 212 (September 1990).
	AO	36	Sasikumar, M. et al., "Active Compensation in the Switched-Capacitor Biquad," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 1008-1009 (August 1983).
	AP	36	Saul, P.H., "A GaAs MESFET Sample and Hold Switch," <i>Fifth European Solid State Circuits Conference-ESSCIRC 79</i> , IEE, pp. 5-7 (1979).
	AQ	36	Shen, D.H. et al., "A 900-MHZ RF Front-End with Integrated Discrete-Time Filtering," <i>IEEE Journal of Solid-State Circuits</i> , IEEE Solid-State Circuits Council, Vol. 31, No. 12, pp. 1945-1954 (December 1996).
5/3	AR	36	Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," <i>Radio Science</i> , American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October 1995).

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2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
S/S	AA37	5,892,380	04/1999	Quist			
	AB37	5,894,239	04/1999	Bonaccio et al.			
	AC37	5,896,562	04/1999	Heinonen			
	AD37	5,900,747	05/1999	Brauns			
	AE37	5,901,054	05/1999	Leu et al.			
	AF37	5,901,187	05/1999	Iinuma			
	AG37	5,901,344	05/1999	Opas			
	AH37	5,901,347	05/1999	Chambers et al.			
S/S	AI37	5,901,348	05/1999	Bang et al.			

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FOREIGN PATENT DOCUMENTS

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

S/S	AN	37	Shen, X. and Tawfik, A.N., "Dynamic Behaviour of Radio Channels Due to Trans-Horizon Propagation Mechanisms," <i>Electronics Letters</i> , IEE, Vol. 29, No. 17, pp. 1582-1583 (August 19, 1993).
	AO	37	Shen, X. et al., "Modeling Enhanced Spherical Diffraction and Troposcattering on a Transhorizon Path with aid of the parabolic Equation and Ray Tracing Methods," <i>IEE Colloquium on Common modeling techniques for electromagnetic wave and acoustic wave propagation</i> , IEE, pp. 4/1-4/7 (March 8, 1996).
	AP	37	Shen, X. and Vilar, E., "Path loss statistics and mechanisms of transhorizon propagation over a sea path," <i>Electronics Letters</i> , IEE, Vol. 32, No. 3, pp. 259-261 (February 1, 1996).
	AQ	37	Shen, D. et al., "A 900 MHZ Integrated Discrete-Time Filtering RF Front-End," <i>IEEE International Solid State Circuits Conference</i> , IEEE, Vol. 39, pp. 54-55 and 417 (February 1996).
S/S	AR	37	Spillard, C. et al., "X-Band Tropospheric Transhorizon Propagation Under Differing Meteorological Conditions," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 451-455 (April 4-7, 1989).

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FILING DATE March 4, 2002		GROUP 2682	

U.S. PATENT DOCUMENTS

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52	AA38	5,901,349	05/1999	Guegnaud <i>et al.</i>			
	AB38	5,903,178	05/1999	Miyatsuji <i>et al.</i>			
	AC38	5,903,187	05/1999	Claverie <i>et al.</i>			
	AD38	5,903,196	05/1999	Salvi <i>et al.</i>			
	AE38	5,903,421	05/1999	Furutani <i>et al.</i>			
	AF38	5,903,553	05/1999	Sakamoto <i>et al.</i>			
	AG38	5,903,595	05/1999	Suzuki			
	AH38	5,903,609	05/1999	Kool <i>et al.</i>			
90	AI38	5,903,827	05/1999	Kennan <i>et al.</i>			

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

53	AN	38	Stafford, K.R. <i>et al.</i> , "A Complete Monolithic Sample/Hold Amplifier," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-9, No. 6, pp. 381-387 (December 1974).				
	AO	38	Staruk, W. Jr. <i>et al.</i> , "Pushing HF Data Rates," <i>Defense Electronics</i> , EW Communications, Vol. 17, No. 5, pp. 211, 213, 215, 217, 220 and 222 (May 1985).				
	AP	38	Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," <i>Electronics</i> , McGraw-Hill, pp. 106-110 (March 27, 1972).				
	AQ	38	Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," <i>The Review of Scientific Instruments</i> , American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957).				
53	AR	38	Sylvain, M., "Experimental probing of multipath microwave channels," <i>Radio Science</i> , American Geophysical Union, Vol. 24, No. 2, pp. 160-178 (March-April 1989).				

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SP	AA39	5,903,854	05/1999	Abe et al.			
	AB39	5,905,449	05/1999	Tsubouchi et al.			
	AC39	5,907,149	05/1999	Marckini			
	AD39	5,907,197	05/1999	Faulk			
	AE39	5,911,116	06/1999	Nosswitz			
	AF39	5,911,123	06/1999	Shaffer et al.			
	AG39	5,914,622	06/1999	Inoue			
	AH39	5,920,199	07/1999	Sauer			
SP	AI39	5,943,370	08/1999	Smith			

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	AL						Yes No
	AM						Yes No

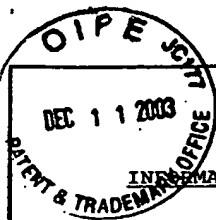
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SP	AN	39	Takano, T., "NOVEL GaAs Pet Phase Detector Operable To Ka Band," <i>IEEE MT-S Digest</i> , IEEE, pp. 381-383 (1984).
	AO	39	Tan, M.A., "Biquadratic Transconductance Switched-Capacitor Filters," <i>IEEE Transactions on Circuits and Systems- I: Fundamental Theory and Applications</i> , IEEE Circuits and Systems Society, Vol. 40, No. 4, pp. 272-275 (April 1993).
	AP	39	Tanaka, K. et al., "Single Chip Multisystem AM Stereo Decoder IC," <i>IEEE Transactions on Consumer Electronics</i> , IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986).
	AQ	39	Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the Sea," <i>Electronics Letters</i> , IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992).
SP	AR	39	Tawfik, A.N. and Vilar, E., "Correlation of Transhorizon Signal Level Strength with Localized Surface Meteorological Parameters," <i>Eighth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 335-339 (March 30- April 2, 1993).

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SB	AA40	4,017,798	04/1977	Gordy et al.			
	AB40	4,032,847	06/1977	Unkauf			
	AC40	4,253,067	02/1981	Caples et al.			
	AD40	4,393,395	07/1983	Hacke et al.			
	AE40	4,816,704	03/1989	Fiori, Jr.			
	AF40	4,841,265	06/1989	Watanabe et al.			
	AG40	4,943,974	07/1990	Motamedi			
	AH40	5,115,409	05/1992	Stepp			
SB	AI40	5,353,306	10/1994	Yamamoto			

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	AK						Yes No
	AL						Yes No
	AM						Yes No

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SB	AN	40	Tawfik, A.N. and Vilar, E., "Dynamic Structure of a Transhorizon Signal at X-band Over a Sea Path," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 446-450 (April 4-7, 1989).
	AO	40	Tawfik, A.N. and Vilar, E., "Statistics of Duration and Intensity of Path Loss in a Microwave Transhorizon Sea-Path," <i>Electronics Letters</i> , IEE, Vol. 26, No. 7, pp. 474-476 (March 29, 1990).
	AP	40	Tawfik, A.N. and Vilar, E., "X-Band Transhorizon Measurements of CW Transmissions Over the Sea- Part 1: Path Loss, Duration of Events, and Their Modeling," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE Antennas and Propagation Society, Vol. 41, No. 11, pp. 1491-1500 (November 1993).
	AQ	40	Temes, G.C. and Tsividis, T., "The Special Section on Switched-Capacitor Circuits," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 915-916 (August 1983).
SB	AR	40	Thomas, G.B., <i>Calculus and Analytic Geometry</i> , Third Edition, Addison-Wesley Publishing, pp. 119-133 (1960).

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SB	AA41	5,515,014	05/1996	Troutman			
	AB41	5,563,550	10/1996	Toth			
	AC41	5,574,755	11/1996	Persico			
	AD41	5,604,592	02/1997	Kotidis et al.			
	AE41	5,638,396	06/1997	Klimek			
	AF41	5,675,392	10/1997	Nayebi et al.			
	AG41	5,694,096	12/1997	Ushiroku et al.			
	AH41	5,757,870	05/1998	Miya et al.			
SB	AI41	5,768,323	06/1998	Kroeger et al.			

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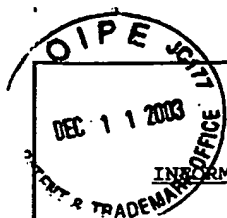
SB	AN	41	Tomassetti, Q., "An Unusual Microwave Mixer," 16 th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 754-759 (September 8-12, 1986).
	AO	41	Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984).
	AP	41	Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. 304 (1985).
	AQ	41	Tsividis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983).
SB	AR	41	Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHz, 900 MHz, and 2.6 Ghz Band Radio Communication Systems," 41 st IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457-462 (May 19-22, 1991).

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SB	AA42	5,770,985	06/1998	Ushiroku et al.			
	AB42	5,778,022	07/1998	Walley			
	AC42	5,812,546	09/1998	Zhou et al.			
	AD42	5,818,869	10/1998	Miya et al.			
	AE42	5,844,449	12/1998	Abeno et al.			
	AF42	5,872,446	02/1999	Cranford, Jr. et al.			
	AG42	5,909,447	06/1999	Cox et al.			
	AH42	5,933,467	08/1999	Sehier et al.			
SB	AI42	5,952,895	09/1999	McCune, Jr. et al.			

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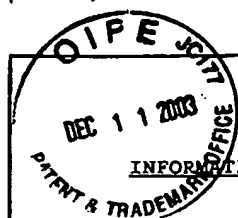
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SB	AN	42	Valdmanis, J.A. et al., "Picosecond and Subpicosecond Optoelectronics for Measurements of Future High Speed Electronic Devices," <i>IEDM Technical Digest</i> , IEEE, pp. 597-600 (December 5-7, 1983).
	AO	42	van de Kamp, M.M.J.L., "Asymmetric signal level distribution due to tropospheric scintillation," <i>Electronics Letters</i> , IEE, Vol. 34, No. 11, pp. 1145-1146 (May 28, 1998).
	AP	42	Vasseur, H. and Vanhoenacker, D., "Characterization of tropospheric turbulent layers from radiosonde data," <i>Electronics Letters</i> , IEE, Vol. 34, No. 4, pp. 318-319 (February 19, 1998).
	AQ	42	Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," <i>IEEE Transactions on Vehicular Technology</i> , IEEE Vehicular Technology Society, Vol. 46, No. 4, pp. 1027-1039 (November 1997).
SB	AR	42	Vierira-Ribeiro, S.A., <i>Single-IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-Pass Sigma-Delta Modulator</i> , Thesis for Degree of Master's of Engineering, Carleton University, UMI Dissertation Services, pp. 1-180 (April 1995).

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SB	AA43	5,960,033	09/1999	Shibano et al.			
	AB43	6,041,073	03/2000	Davidovici et al.			
	AC43	6,054,889	04/2000	Kobayashi			
	AD43	6,084,922	07/2000	Zhou et al.			
	AE43	6,125,271	09/2000	Rowland et al.			
	AF43	6,147,340	11/2000	Levy			
	AG43	6,147,763	11/2000	Steinlechner			
	AH43	6,150,890	11/2000	Damgaard et al.			
SB	AI43	5,126,682	06/1992	Weinberg et al.			

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SB	AN	43	Vilar, E. et al., "A Comprehensive/Selective MM-Wave Satellite Downlink Experiment on Fade Dynamics," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 2.98-2.101 (April 14-17, 1997).
	AO	43	Vilar, E. et al., "A System to Measure LOS Atmospheric Transmittance at 19 Ghz," <i>AGARD Conference Proceedings No. 346: Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation</i> , AGARD, pp. 8-1 - 8-16 (October 4-7, 1983).
	AP	43	Vilar, E. and Smith, H., "A Theoretical and Experimental Study of Angular Scintillations in Earth Space Paths," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. AP-34, No. 1, pp. 2-10 (January 1986).
	AQ	43	Vilar, E. et al., "A Wide Band Transhorizon Experiment at 11.6 Ghz," <i>Eighth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 441-445 (March 30- April 2, 1993).
SB	AR	43	Vilar, E. and Matthews, P.A., "Amplitude Dependence of Frequency in Oscillators," <i>Electronics Letters</i> , IEE, Vol. 8, No. 20, pp. 509-511 (October 5, 1972).

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SB	AA44	5,841,811	11/1998	Song			
	AB44	4,051,475	09/1977	Campbell			
	AC44	5,953,642	09/1999	Feldtkeller et al.			
	AD44	4,653,117	03/1987	Heck			
	AE44	5,859,878	01/1999	Phillips et al.			
	AF44	5,894,496	04/1999	Jones			
	AG44	5,915,278	06/1999	Mallick			
	AH44	6,028,887	02/2000	Harrison et al.			
SA	AI44	6,081,691	06/2000	Renard et al.			

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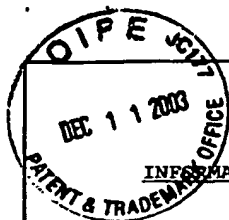
SB	AN	44	Vilar, E. et al., "An experimental mm-wave receiver system for measuring phase noise due to atmospheric turbulence," <i>Proceedings of the 25th European Microwave Conference</i> , Nexus House, pp. 114-119 (1995).
	AO	44	Vilar, E. and Burgueño, A., "Analysis and Modeling of Time Intervals Between Rain Rate Exceedances in the Context of Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 39, No. 9, pp. 1306-1312 (September 1991).
	AP	44	Vilar, E. et al., "Angle of Arrival Fluctuations in High and Low Elevation Earth Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , Electronics Division of the IEE, pp. 83-88 (April 16-19, 1985).
	AQ	44	Vilar, E., "Antennas and Propagation: A Telecommunications Systems Subject," <i>Electronics Division Colloquium on Teaching Antennas and Propagation to Undergraduates</i> , IEE, pp. 7/1-7/6 (March 8, 1988).
SA	AR	44	Vilar, E. et al., "CERS". Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," <i>Electronics Division Colloquium on CERS- Communications Engineering Research Satellite</i> , IEE, pp. 10/1-10/10 (April 10, 1984).

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SB	AA45	6,121,819	09/2000	Traylor			
	AB45	6,144,236	11/2000	Vice et al.			
	AC45	6,144,846	11/2000	Durec			
	AD45	6,175,728 B1	01/2001	Mitama			
	AE45	5,705,949	01/1998	Alelyunas et al.			
	AF45	5,883,548	03/1999	Assard et al.			
	AG45	4,484,143	11/1984	French et al.			
	AH45	5,841,324	11/1998	Williams			
SB	AI45	4,855,894	08/1989	Asahi et al.			

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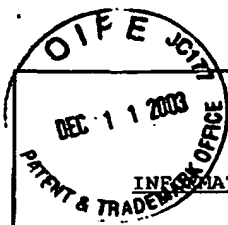
SB	AN	45	Vilar, E. and Mousley, T.J., "Comment and Reply: Probability Density Function of Amplitude Scintillations," <i>Electronics Letters</i> , IEE, Vol. 21, No. 14, pp. 620-622 (July 4, 1985).
	AO	45	Vilar, E. et al., "Comparison of Rainfall Rate Duration Distributions for ILE-IFE and Barcelona," <i>Electronics Letters</i> , IEE, Vol. 28, No. 20, pp. 1922-1924 (September 24, 1992).
	AP	45	Vilar, E., "Depolarization and Field Transmittances in Indoor Communications," <i>Electronics Letters</i> , IEE, Vol. 27, No. 9, pp. 732-733 (April 25, 1991).
	AQ	45	Vilar, E. and Larsen, J.R., "Elevation Dependence of Amplitude Scintillations on Low Elevation Earth Space Paths," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 150-154 (April 4-7, 1989).
SB	AR	45	Vilar, E. et al., "Experimental System and Measurements of Transhorizon Signal Levels at 11 Ghz," <i>18th European Microwave Conference, Microwave Exhibitions and Publishers Ltd.</i> , pp. 429-435 (September 12 - 15, 1988).

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SB	AA46	5,319,799	06/1994	Morita			
	AB46	5,801,654	09/1998	Traylor			
	AC46	5,369,404	11/1994	Galton			
	AD46	3,716,730	02/1973	Cerny, Jr.			
	AE46	4,080,573	03/1978	Howell			
	AF46	4,334,324	06/1982	Hoover			
	AG46	4,369,522	01/1983	Cerny, Jr. et al.			
	AH46	5,465,418	11/1995	Zhou et al.			
SB	AI46	5,513,389	04/1996	Reeser et al.			

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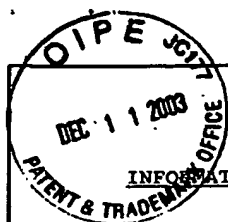
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SB	AN	46	Vilar, E. and Matthews, P.A., "Importance of Amplitude Scintillations in Millimetric Radio Links," <i>Proceedings of the 4th European Microwave Conference</i> , Microwave Exhibitions and Publishers, pp. 202-206 (September 10-13, 1974).
	AO	46	Vilar, E. and Haddon, J., "Measurement and Modeling of Scintillation Intensity to Estimate Turbulence Parameters in an Earth-Space Path," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE Antennas and Propagation Society, Vol. AP-32, No. 4, pp. 340-346 (April 1984).
	AP	46	Vilar, E. and Matthews, P.A., "Measurement of Phase Fluctuations on Millimetric Radiowave Propagation," <i>Electronics Letters</i> , IEE, Vol. 7, No. 18, pp. 566-568 (September 9, 1971).
	AQ	46	Vilar, E. and Wan, K.W., "Narrow and Wide Band Estimates of Field Strength for Indoor Communications in the Millimetre Band," <i>Electronics Division Colloquium on Radiocommunications in the Range 30-60 Ghz</i> , IEE, pp. 5/1-5/8 (January 17, 1991).
SB	AR	46	Vilar, E. and Faulkner, N.D., "Phase Noise and Frequency Stability Measurements. Numerical Techniques and Limitations," <i>Electronics Division Colloquium on Low Noise Oscillators and Synthesizer</i> , IEE, 5 pages (January 23, 1986).

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SB	AA47	5,959,850	09/1999	Lim			
	AB47	5,157,687	10/1992	Tymes			
	AC47	5,945,660	08/1999	Nakasuji et al.			
	AD47	6,091,939	07/2000	Banh			
	AE47	6,091,941	07/2000	Moriyama et al.			
	AF47	6,098,886	08/2000	Swift et al.			
	AG47	6,215,475 B1	04/2001	Meyerson et al.			
	AH47	6,049,706	04/2000	Cook et al.			
	AI47	6,061,551	05/2000	Sorrells et al.			

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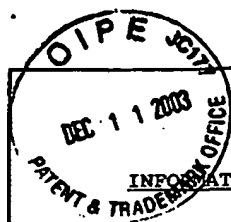
SB	AN	47	Vilar, E. and Senin, S., "Propagation phase noise identified using 40 Ghz satellite downlink," <i>Electronics Letters</i> , IEE, Vol. 33, No. 22, pp. 1901-1902 (October 23, 1997).
	AO	47	Vilar, E. et al., "Scattering and Extinction: Dependence Upon Raindrop Size Distribution in Temperate (Barcelona) and Tropical (Belem) Regions," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 2.230-2.233 (April 14-17, 1997).
	AP	47	Vilar, E. and Haddon, J., "Scintillation Modeling and Measurement - A Tool for Remote-Sensing Slant Paths," <i>AGARD Conference Proceedings No. 332: Propagation Aspects of Frequency Sharing, Interference And System Diversity</i> , AGARD, pp. 27-1 - 27-13 (October 18-22, 1982).
	AQ	47	Vilar, E., "Some Limitations on Digital Transmission Through Turbulent Atmosphere," <i>International Conference on Satellite Communication Systems Technology</i> , Electronics Division of the IEE, pp. 169-187 (April 7-10, 1975).
50	AR	47	Vilar, E. and Matthews, P.A., "Summary of Scintillation Observations in a 36 Ghz Link Across London," <i>International Conference on Antennas and Propagation Part 2: Propagation</i> , IEE, pp. 36-40 (November 28-30, 1978).

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SB	AA48	6,061,555	05/2000	Bultman et al.			
	AB48	6,091,940	07/2000	Sorrells et al.			
	AC48	6,266,518 B1	07/2001	Sorrells et al.			
	AD48	6,353,735 B1	03/2002	Sorrells et al.			
	AE48	6,370,371 B1	04/2002	Sorrells et al.			
	AF48	5,628,055	05/1997	Stein			
	AG48	5,678,220	10/1997	Fournier			
	AH48	5,926,065	07/1999	Wakai et al.			
SB	AI48	3,622,885	11/1971	Oberdorf et al.			

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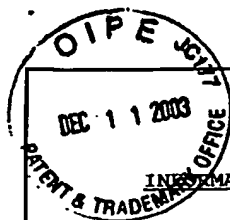
SB	AN	48	Vilar, E. et al., "Wideband Characterization of Scattering Channels," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEEE, pp. 2.353-2.358 (April 14-17, 1997).
	AO	48	Vollmer, A., "Complete GPS Receiver Fits on Two Chips," <i>Electronic Design</i> , Penton Publishing, pp. 50, 52, 54 and 56 (July 6, 1998).
	AP	48	<i>Voltage and Time Resolution in Digitizing Oscilloscopes: Application Note 348</i> , Hewlett Packard, pp. 1-11 (November 1986).
	AQ	48	Wan, K.W. et al., "A Novel Approach to the Simultaneous Measurement of Phase and Amplitude Noises in Oscillator," <i>Proceedings of the 19th European Microwave Conference</i> , Microwave Exhibitions and Publishers Ltd., pp. 809-813 (September 4-7, 1989).
SB	AR	48	Wan, K.W. et al., "Extended Variances and Autoregressive/Moving Average Algorithm for the Measurement and Synthesis of Oscillator Phase Noise," <i>Proceedings Of the 43rd Annual Symposium on Frequency Control</i> , IEEE, pp. 331-335 (1989).

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SAB	AA49	4,483,017	11/1984	Hampel <i>et al.</i>			
	AB49	6,421,534 B1	07/2002	Cook <i>et al.</i>			
	AC49	6,330,244 B1	12/2001	Swartz <i>et al.</i>			
	AD49	4,384,357	05/1983	deBuda <i>et al.</i>			
	AE49	4,470,145	09/1984	Williams			
	AF49	5,600,680	02/1997	Mishima <i>et al.</i>			
	AG49	5,606,731	02/1997	Pace <i>et al.</i>			
	AH49	5,870,670	02/1999	Ripley <i>et al.</i>			
SB	AI49	6,314,279 B1	11/2001	Mohindra			

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	AK						Yes No
	AL						Yes No
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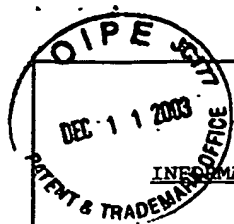
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

58	AN	49	Wan, K.W. <i>et al.</i> , "Wideband Transhorizon Channel Sounder at 11 Ghz," <i>Electronics Division Colloquium on High Bit Rate UHF/SHF Channel Sounders - Technology and Measurement</i> , IEE, pp. 3/1-3/5 (December 3, 1993).
	AO	49	Wang, H., "A 1-V Multigigahertz RF Mixer Core in 0.5 - μ m CMOS," <i>IEEE Journal of Solid-State Circuits</i> , IEEE Solid-State Circuits Society, Vol. 33, No. 12, pp. 2265-2267 (December 1998).
	AP	49	Watson, A.W.D. <i>et al.</i> , "Digital Conversion and Signal Processing for High Performance Communications Receivers," <i>Digital Processing of Signals in Communications</i> , Institution of Electronic and Radio Engineers, pp. 367-373 (April 22nd -26th, 1985).
	AQ	49	Weast, R.C. <i>et al.</i> (Ed.), <i>Handbook of Mathematical Tables</i> , Second Edition, The Chemical Rubber Co., pp. 480-485 (1964).
59	AR	49	Wiley, R.G., "Approximate FM Demodulation Using Zero Crossings," <i>IEEE Transactions on Communications</i> , IEEE, Vol. COM-29, No. 7, pp. 1061-1065 (July 1981).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0020007APPLICATION NO.
10/086,367APPLICANTS
Sorrells et al.FILING DATE
March 4, 2002GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
SB	AA50	5,633,815	05/1997	Young			
	AB50	3,246,084	04/1966	Kryter			
	AC50	3,702,440	11/1972	Moore			
	AD50	3,767,984	10/1973	Shinoda et al.			
	AE50	3,852,530	12/1974	Shen			
	AF50	4,220,977	09/1980	Yamanaka			
	AG50	5,016,242	05/1991	Tang			
	AH50	5,937,013	08/1999	Lam et al.			
	AI50	6,014,551	01/2000	Pesola et al.			

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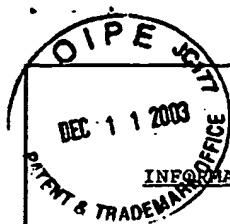
SB	AN	50	Worthman, W., "Convergence... Again," <i>RF Design</i> , Primedia, p. 102 (March 1999).
	AO	50	Young, I.A. and Hodges, D.A., "MOS Switched-Capacitor Analog Sampled-Data Direct-Form Recursive Filters," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-14, No. 6, pp. 1020-1033 (December 1979).
	AP	50	Translation of Specification and Claims of FR Patent No. 2245130, 3 pages (April 18, 1975- Date of publication of application).
	AQ	50	Fest, Jean-Pierre, "Le Convertisseur A/N Revolutionne Le Recepteur Radio," <i>Electronique</i> , JMJ (Publisher), No. 54, pp. 40-42 (December 1995).
SB	AR	50	Translation of DE Patent No. 35 41 031 A1, 22 pages (May 22, 1986- Date of publication of application).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SB	AA51	6,073,001	06/2000	Sokoler			
	AB51	6,085,073	07/2000	Palermo et al.			
	AC51	6,400,963 B1	06/2002	Glöckler et al.			
	AD51	6,230,000 B1	05/2001	Taylor			
	AE51	5,483,695	01/1996	Pardoen			
	AF51	6,542,722 B1	04/2003	Sorrells et al.			
	AG51	6,560,301 B1	05/2003	Cook et al.			
	AH51	6,098,046	08/2000	Cooper et al.			
SB	AI51	5,564,097	10/1996	Swanke			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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SB	AN	51	Translation of EP Patent No. 0 732 803 A1, 9 pages (September 18, 1996- Date of publication of application).				
	AO	51	Fest, Jean-Pierre, "The A/D Converter Revolutionizes the Radio Receiver," <i>Electronique</i> , JMJ (Publisher), No. 54, 3 pages (December 1995). (Translation of Doc. AQ50).				
	AP	51	Translation of German Patent No. DE 197 35 798 C1, 8 pages (July 16, 1998- Date of publication of application).				
	AQ	51	Miki, S. and Nagahama, R., <i>Modulation System II</i> , Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-154 (April 30, 1956).				
SB	AR	51	Miki, S. and Nagahama, R., <i>Modulation System II</i> , Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-149 (April 30, 1956). (Partial Translation of Doc. AQ51).				

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INFORMATION DISCLOSURE STATEMENT

APPLICATION NO.
10/086,367

FILING DATE
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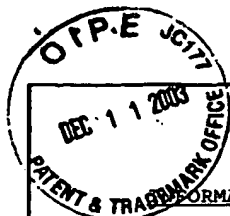
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
JB	AA52	5,898,912	04/1999	Heck <i>et al.</i>			
	AB52	4,660,164	04/1987	Leibowitz			
	AC52	6,580,902 B1	06/2003	Sorrells <i>et al.</i>			
	AD52	4,857,928	08/1989	Gailus <i>et al.</i>			
	AE52	5,389,839	02/1995	Heck			
	AF52	5,471,665	11/1995	Pace <i>et al.</i>			
	AG52	6,327,313 B1	12/2001	Traylor <i>et al.</i>			
	AH52	5,751,154	05/1998	Tsugai			
5/2	AI52	5,793,817	08/1998	Wilson			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ						Yes No
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	AL						Yes No
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5B	AN	<u>52</u>	Rabiner, L.R. and Gold, B., <i>Theory And Application Of Digital Signal Processing</i> , Prentice-Hall, Inc., pp. v-xi and 40-46 (1975).
	AO	<u>52</u>	English-language Abstract of Japanese Patent Publication No. 08-032556, from http://www1.ipdl.jpo.go.jp , 2 Pages (February 2, 1996 - Date of publication of application).
	AP	<u>52</u>	English-language Abstract of Japanese Patent Publication No. 08-139524, from http://www1.ipdl.jpo.go.jp , 2 Pages (May 31, 1996 - Date of publication of application).
	AQ	<u>52</u>	English-language Abstract of Japanese Patent Publication No. 59-144249, from http://www1.ipdl.jpo.go.jp , 2 Pages (August 18, 1984 - Date of publication of application).
5B	AR	<u>52</u>	English-language Abstract of Japanese Patent Publication No. 63-054002, from http://www1.ipdl.jpo.go.jp , 2 Pages (March 8, 1988 - Date of publication of application).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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1744.0020007APPLICATION NO.
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March 4, 2002GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
SB	AA53	6,225,848 B1	05/2001	Tilley <i>et al.</i>	_____	_____	
	AB53	6,313,685 B1	11/2001	Rabii	_____	_____	
	AC53	3,614,627	10/1971	Runyan <i>et al.</i>	_____	_____	
	AD53	3,940,697	02/1976	Morgan	_____	_____	
	AE53	4,016,366	04/1977	Kurata	_____	_____	
	AF53	4,045,740	08/1977	Baker	_____	_____	
	AG53	4,115,737	09/1978	Hongu <i>et al.</i>	_____	_____	
	AH53	5,710,992	01/1998	Sawada <i>et al.</i>	_____	_____	
SB	AI53	5,790,587	08/1998	Smith <i>et al.</i>	_____	_____	

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	AK						Yes No
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	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SB	AN	53	English-language Abstract of Japanese Patent Publication No. 06-237276, from http://www1.ipdl.jpo.go.jp , 2 Pages (August 23, 1994 - Date of publication of application).
	AO	53	English-language Abstract of Japanese Patent Publication No. 08-023359, from http://www1.ipdl.jpo.go.jp , 2 Pages (January 23, 1996 - Date of publication of application).
	AP	53	Translation of Japanese Patent Publication No. 47-2314, 7 pages (February 4, 1972- Date of publication of application).
	AQ	53	Partial Translation of Japanese Patent Publication No. 58-7903, 3 pages (January 17, 1983- Date of publication of application).
	AR	53	English-language Abstract of Japanese Patent Publication No. 58-133004, from http://www1.ipdl.jpo.go.jp , 2 Pages (August 8, 1993 - Date of publication of application).

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SB	AA54	4,740,675	04/1988	Brosnan et al.			
	AB54	5,483,600	01/1996	Werrbach			
	AC54	6,011,435	01/2000	Takeyabu et al.			
	AD54	6,321,073 B1	11/2001	Luz et al.			
	AE54	6,026,286	02/2000	Long			
	AF54	6,178,319 B1	01/2001	Kashima			
	AG54	6,634,555 B1	10/2003	Sorrells et al.			
	AH54	3,736,513	05/1973	Wilson			
SB	AI54	4,488,119	12/1984	Marshall			

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SB	AN	54	English-language Abstract of Japanese Patent Publication No. 60-058705, from http://www1.ipdl.jpo.go.jp , 2 Pages (April 4, 1985 - Date of publication of application).
	AO	54	English-language Abstract of Japanese Patent Publication No. 04-123614, from http://www1.ipdl.jpo.go.jp , 2 Pages (April 23, 1992 - Date of publication of application).
	AP	54	English-language Abstract of Japanese Patent Publication No. 04-127601, from http://www1.ipdl.jpo.go.jp , 2 Pages (April 28, 1992 - Date of publication of application).
	AQ	54	English-language Abstract of Japanese Patent Publication No. 05-175730, from http://www1.ipdl.jpo.go.jp , 2 Pages (July 13, 1993 - Date of publication of application).
SB	AR	54	English-language Abstract of Japanese Patent Publication No. 05-175734, from http://www1.ipdl.jpo.go.jp , 2 Pages (July 13, 1993 - Date of publication of application).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
SP	AA55	4,633,510	12/1986	Suzuki et al.			
	AB55	5,369,789	11/1994	Kosugi et al.			
	AC55	5,416,449	05/1995	Joshi			
	AD55	5,438,329	08/1995	Gastouniotis et al.			
	AE55	6,611,569 B1	08/2003	Schier et al.			
SP	AF55	6,647,250 B1	11/2003	Bultman et al.			
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	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

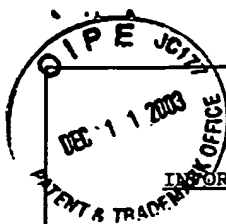
SP	AN	55	English-language Abstract of Japanese Patent Publication No. 07-154344, from http://www1.ipdl.jpo.go.jp , 2 Pages (June 16, 1995 - Date of publication of application).
	AO	55	English-language Abstract of Japanese Patent Publication No. 07-307620, from http://www1.ipdl.jpo.go.jp , 2 Pages (November 21, 1995 - Date of publication of application).
	AP	55	Oppenheim, A.V. and Schafer, R.W., <i>Digital Signal Processing</i> , Prentice-Hall, pp. vii-x, 6-35, 45-78, 87-121 and 136-165 (1975).
	AQ	55	English-language Abstract of Japanese Patent Publication No. 55-066057, from http://www1.ipdl.jpo.go.jp , 2 Pages (May 19, 1980 - Date of publication of application).
SP	AR	55	English-language Abstract of Japanese Patent Publication No. 63-065587, from http://www1.ipdl.jpo.go.jp , 2 Pages (March 24, 1988 - Date of publication of application).

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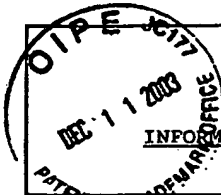
SB	AN	56	English-language Abstract of Japanese Patent Publication No. 63-153691, from http://www1.ipdl.jpo.go.jp , 2 Pages (June 27, 1988 - Date of publication of application).
	AO	56	Translation of Japanese Patent Publication No. 60-130203, 3 pages (July 11, 1985- Date of publication of application).
	AP	56	Razavi, B., "A 900-MHz/1.8-GHz CMOS Transmitter for Dual-Band Applications," <i>Symposium on VLSI Circuits Digest of Technical Papers</i> , IEEE, pp. 128-131 (1998).
	AQ	56	Ritter, G.M., "SDA, A New Solution for Transceivers," <i>16th European Microwave Conference</i> , Microwave Exhibitions and Publishers, pp. 729-733 (September 8, 1986).
SB	AR	56	DIALOG File 351 (Derwent WPI) English Language Patent Abstract for FR 2 669 787, 1 page (May 29, 1992- Date of publication of application).

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	FORM PTO-1449	ATTY. DOCKET NO. 1744.0020007	APPLICATION NO. 10/086,367
	INFORMATION DISCLOSURE STATEMENT	APPLICANTS Sorrells et al.	
	FILING DATE March 4, 2002	GROUP 2682	

U.S. PATENT DOCUMENTS

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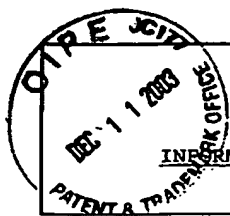
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
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SB	AN	57	Akos, D.M. et al., "Direct Bandpass Sampling of Multiple Distinct RF Signals," <i>IEEE Transactions on Communications</i> , IEEE, Vol. 47, No. 7, pp. 983-988 (July 1999).
	AO	57	Patel, M. et al., "Bandpass Sampling for Software Radio Receivers, and the Effect of Oversampling on Aperture Jitter," <i>VTC 2002</i> , IEEE, pp. 1901-1905 (2002).
	AP	57	English-language Abstract of Japanese Patent Publication No. 61-030821, from http://www1.ipdl.jpo.go.jp , 2 Pages (February 13, 1986- Date of publication of application).
	AQ	57	English-language Abstract of Japanese Patent Publication No. 05-327356, from http://www1.ipdl.jpo.go.jp , 2 Pages (December 10, 1993 - Date of publication of application).
SB	AR	57	Taylor, D., "A Low-noise, High-performance Zero IF Quadrature Detector/Preamplifier," <i>RF Design</i> , Primedia Business Magazines & Media, Inc., pp. 58, 60, 62 and 69 (March 2003).

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	AK						Yes No
	AL						Yes No
	AM						Yes No

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SP	AN	58	Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996).
	AO	58	Simoni, A. et al., "A Digital Camera for Machine Vision," <i>20th International Conference on Industrial Electronics, Control and Instrumentation</i> , IEEE, pp. 879-883 (September 1994).
	AP	58	Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," <i>Electronics & Communication Engineering Journal</i> , IEEE, pp. 37-47 (February 1998).
	AQ	58	Rudell, J.C. et al., "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997).
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